

ORIGINAL



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Phoenix, Arizona 85004
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AZ CORP COMMISSION
DOCKET CONTROL

BEFORE THE ARIZONA CORPORATION COMMISSION

COMMISSIONERS

SUSAN BITTER-SMITH, CHAIRMAN
BOB STUMP
BOB BURNS
TOM FORESE
DOUG LITTLE

Arizona Corporation Commission

DOCKETED

AUG 10 2015

DOCKETED BY

MLB

**IN THE MATTER OF PICACHO PEAK
WATER COMPANY, INC.'S RATE
APPLICATION**

Docket No. W-02351A-07-0319
W-02351A-07-0686

STATUS REPORT

Picacho Peak Water Company ("Company") hereby files its status report regarding the Company's compliance with Arizona Department of Environmental Quality ("ADEQ") regulations. The Company is continuing to operate, maintain, and monitor the point-of-use treatment to achieve compliance with the Nitrate standards. With only one exception, the point-of-use treatment has been installed and is working well at every customer residence or business. The only exception is the Dairy Queen, which had installed a treatment device long ago, but it recently failed and now another

1 system needs to be installed. On August 3, 2015, the Company submitted the
2 Application for Approval to Install the treatment facility at the Dairy Queen. See
3 Attachment 1.
4

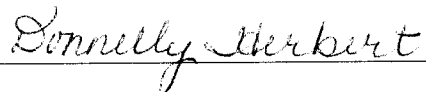
5 RESPECTFULLY SUBMITTED this 10th day of August, 2015.

6 **MOYES SELLERS & HENDRICKS LTD.**

7
8 
9 Steve Wene

10
11 Original and 13 copies of the foregoing
12 filed this 10th day of August, 2015, with:

13 Docket Control
14 Arizona Corporation Commission
15 1200 West Washington
16 Phoenix, Arizona 85007

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ATTACHMENT 1

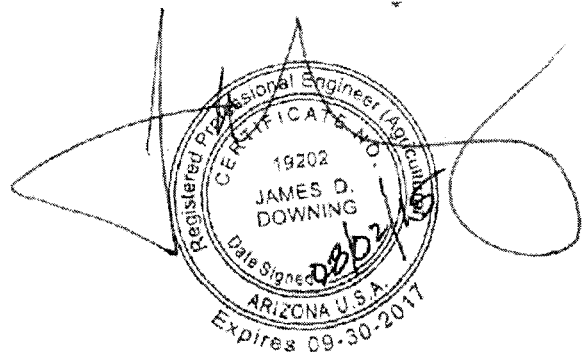
Application Package
For
Approval to Install
For
Picacho Peak Water Co. (PPWC)
PWS #AZ04110398
For
POE Water Treatment for the Dairy Queen (DQ)
Meter #1
32° 38.873' N 111° 23.480' W

Contents:

- 1.0 Narrative Report
- 2.0 Application
- 3.0 Application Inclusion Check List
- 3.1 Manufacturer Certification of Effectiveness
- 3.2 Performance Indication Device (PID)
- 3.3 Customer Participation Information
- 3.4 Installation Schedule
- 3.5 Preliminary Maintenance Schedule
- 3.6 Proposed Monitoring Plan
- 3.7 Customer Education and Outreach Plan

Attachments

- A. Proposed POE System Schematic #1
- B. Proposed POE System Calculations
- C. Proposed POE System Certifications
 - Schematic #1
 - Schematic #2
- D. PPWC / DQ Agreement



1.0 Narrative Report

PPWC has historically served the DQ with untreated water and the DQ has operated its own POE water treatment system. The current system, owned and operated by the DQ, is failing. PPWC and the DQ have agreed to install a new POE treatment system under an agreement found under Customer Participation Requirements. PPWC will own and operate the system.

The current system consists of water softening. The proposed system will consist of softening, RO treatment, carbon filtration and UV disinfection. See the proposed system schematic in Attachment A. See also the calculations of flow rates and daily volumes in Attachment B.

Historically, the softener wastewater (brine) has been discharged into a wastewater treatment plant owned and operated by the DQ. WWTP performance to date has exhibited no detrimental effects, so it is proposed that wastewater from the proposed system be discharged to the WWTP.

3.1 Manufacturer Certification of Effectiveness

Within Attachment C there are Schematics #1 and #2. Schematic #1 is for the entire system. Schematic #2 is for the R. O. Unit. Behind each Schematic are cut sheets for each component showing certification. The engineer certifies that the systems meet ADEQ requirements for system certification.

3.2 Performance Indication Device (PID)

The system will be interlocked with the Dairy Queen computer system which will tell employees when maintenance is due. The timer will be set initially at 730 hours.

3.3 Customer Participation Information

See Attachment D.

3.4 Installation Schedule

The contractor, Advanced Water Systems (AWS), has been selected. Pending receipt of ATI, the contractor will be given notice to proceed. Equipment shipment will take two weeks. Installation will take one week.

3.5 Preliminary Maintenance Schedule

The proposed System will be covered by a maintenance contract executed between PPWC and AWS. All maintenance will be performed by AWS.

3.6 Proposed Monitoring Plan

Subsequent to construction completion, the system will be started, set and tested. Field test strips will be used to determine the appropriate time to collect water samples for delivery to a certified laboratory. The laboratory will furnish test results for TDS, Nitrate, Nitrite, Fluoride and Arsenic. The system will be adjusted should laboratory test results indicate the need with new samples going back to the laboratory. This procedure will be repeated until test results are satisfactory. Once the system is producing water of required quality, TDS and Nitrate will be monitored monthly with test strips. These results will be recorded and kept. Semi-annually, water samples will be sent to a certified laboratory. These results will be reported, recorded and kept.

3.7 Customer Education and Outreach Plan

See Attachment D.

Application for Approval to Use Point-of-Use Water Treatment

(Please submit to the ADEQ Water Quality Division at 1110 W. Washington St., Phoenix, AZ 85007)

System ID: AZ0440398 System Name: PEACHO PEAK WATER CO System Location (city/area): PEACHO PEAK, AZ

This Application is for: 1 Number of Hook ups*

Type of POU device used: SEE REPORT - MULTIPLE

Manufacturer of Device: SEE REPORT - MULTIPLE

Model Number of Device: SEE REPORT - MULTIPLE

Contaminant	Action Level
<input type="checkbox"/> Arsenic	0.010 mg/L
<input type="checkbox"/> Copper	1.3 mg/L
<input type="checkbox"/> Fluoride	2.0 mg/L
<input type="checkbox"/> Lead	0.015 mg/L
<input type="checkbox"/> Radium	5 pCi/L
<input checked="" type="checkbox"/> Other	<u>NITRATE</u>

Verified ANSI Certification on device? ☒ Yes ☐ No

Who is installing the Units?

- ☐ System Operator
- ☐ Water System Employee
- ☐ Water corporation work group
- ☒ Local Water Dealer
- ☐ Other

What Type of performance indication device does the unit have?

- ☐ TDS Monitor (for RO units)
- ☒ Timer
- ☐ Total Flow

For timer and flow meters, please provide details regarding how the performance indicator will warn the user when the system is not performing: SEE REPORT - SYSTEM WILL BE WATER LOCKED WITH THE DAIRY QUEEN COMPUTER SYSTEM

Provide overview of the maintenance requirements for the POU devices planned to be installed: SEE REPORT PPWC WILL EXECUTE A MAINTENANCE AGREEMENT WITH ARLS.

I hereby certify that the information provided in this application is accurate and correct to the best of my knowledge.

Authorizer Name: Bill McCabe Signature: Bill McCabe

Phone Number: 505-266-5985 Date: 7/27/15

*Do not include transient dwellings. Refer to ADEQ POU guidelines for further information regarding transient dwellings.

APPENDIX 1

Point-of-Use Water Treatment Application Checklist:

- ☒ POU Program Application (attached)
- ☒ Manufacturer Certification of Effectiveness
- ☒ Detailed Description of Performance Indication Device (PID)
- ☒ Customer Participation Information (e.g. schedule for reaching 100% participation)
- ☒ Installation Schedule (including parties responsible for installation and their qualifications)
- ☒ Preliminary Maintenance Schedule
- ☒ Monitoring Plan Showing Sections
- ☒ Customer Education and Outreach Plans

1.0 Narrative Report

PPWC has historically served the DQ with untreated water and the DQ has operated its own POE water treatment system. The current system, owned and operated by the DQ, is failing. PPWC and the DQ have agreed to install a new POE treatment system under an agreement found under Customer Participation Requirements. PPWC will own and operate the system.

The current system consists of water softening. The proposed system will consist of softening, RO treatment, carbon filtration and UV disinfection. See the proposed system schematic in Attachment A. See also the calculations of flow rates and daily volumes in Attachment B.

Historically, the softener wastewater (brine) has been discharged into a wastewater treatment plant owned and operated by the DQ. WWTP performance to date has exhibited no detrimental effects, so it is proposed that wastewater from the proposed system be discharged to the WWTP.

3.1 Manufacturer Certification of Effectiveness

Within Attachment C there are Schematics #1 and #2. Schematic #1 is for the entire system. Schematic #2 is for the R. O. Unit. Behind each Schematic are cut sheets for each component showing certification. The engineer certifies that the systems meet ADEQ requirements for system certification.

3.2 Performance Indication Device (PID)

The system will be interlocked with the Dairy Queen computer system which will tell employees when maintenance is due. The timer will be set initially at 730 hours.

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See Attachment D.

3.4 Installation Schedule

The contractor, Advanced Water Systems (AWS), has been selected. Pending receipt of ATI, the contractor will be given notice to proceed. Equipment shipment will take two weeks. Installation will take one week.

3.5 Preliminary Maintenance Schedule

The proposed System will be covered by a maintenance contract executed between PPWC and AWS. All maintenance will be performed by AWS.

3.6 Proposed Monitoring Plan

Subsequent to construction completion, the system will be started, set and tested. Field test strips will be used to determine the appropriate time to collect water samples for delivery to a certified laboratory. The laboratory will furnish test results for TDS, Nitrate, Nitrite, Fluoride and Arsenic. The system will be adjusted should laboratory test results indicate the need with new samples going back to the laboratory. This procedure will be repeated until test results are satisfactory. Once the system is producing water of required quality, TDS and Nitrate will be monitored monthly with test strips. These results will be recorded and kept. Semi-annually, water samples will be sent to a certified laboratory. These results will be reported, recorded and kept.

3.7 Customer Education and Outreach Plan

See Attachment D.

Application for Approval to Use Point-of-Use Water Treatment

(Please submit to the ADEQ Water Quality Division at 1110 W. Washington St., Phoenix, AZ 85007)

System ID: AZ04110398 System Name: PICACHO PEAK WATER CO System Location (city / area): PICACHO PEAK AZ

THIS APPLICATION IS FOR 1 Number of Hook ups*

Type of POU device used: SEE REPORT - MULTIPLE

Manufacturer of Device: SEE REPORT - MULTIPLE

Model Number of Device: SEE REPORT - MULTIPLE

Contaminant	Action Level
<input type="checkbox"/> Arsenic	0.010 mg/L
<input type="checkbox"/> Copper	1.3 mg/L
<input type="checkbox"/> Fluoride	2.0 mg/L
<input type="checkbox"/> Lead	0.015 mg/L
<input type="checkbox"/> Radium	5 pCi/L
<input checked="" type="checkbox"/> Other	<u>ULTRATE</u>

Verified ANSI Certification on device?

☒ Yes
☐ No

Who is installing the Units?

- ☐ System Operator
☐ Water System Employee
☐ Water corporation work group
☒ Local Water Dealer
☐ Other

What Type of performance indication device does the unit have?

- ☐ TDS Monitor (for RO units)
☒ Timer
☐ Total Flow

For timer and flow meters, please provide details regarding how the performance indicator will warn the user when the system is not performing:

SEE REPORT - SYSTEM WILL BE INTERLOCKED WITH THE DAILY QUEEN COMPUTER SYSTEM.

Provide overview of the maintenance requirements for the POU devices planned to be installed:

PPMC WILL EXECUTE A MAINTENANCE AGREEMENT WITH AHS.

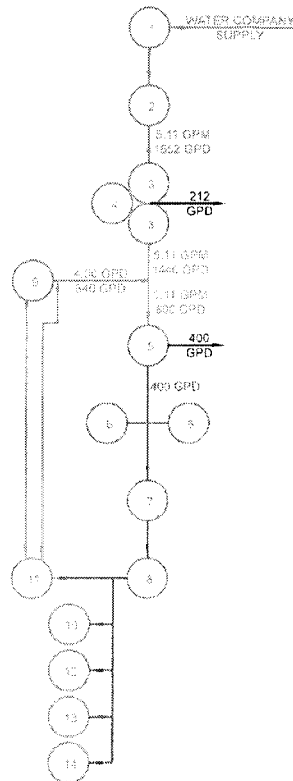
I hereby certify that the information provided in this application is accurate and correct to the best of my knowledge.

Authorizer Name: BILL MCGABE Signature

Phone Number: _____ Date

*Do not include transient dwellings. Refer to ADEQ POU guidelines for further information regarding transient dwellings.

ATTACHMENT A



RED - RAW WATER
 GREEN - ROFT WATER
 BLUE - R.O. WATER
 BLACK - WASTE WATER

- 1 - STORAGE TANK - EXISTING
- 2 - PRESSURE PUMP TO BUILDING - EXISTING
- 3 - WATER SOFTENER (TWIN ALTERNATING) - REPLACE
- 4 - SALT TANK - REPLACE
- 5 - R.O. SYSTEM (800 GPD) - ADD
- 6 - R.O. STORAGE TANK (20 GAL.) - ADD
- 7 - FINAL CARBON FILTER - ADD
- 8 - U.V. DISINFECTION - ADD
- 9 - WATER HEATER - EXISTING
- 10 - ICE MACHINE - EXISTING
- 11 - TRIPLE SINK - EXISTING - ADD R.O. FAUCET
- 12 - COFFEE MACHINE - EXISTING
- 13 - ARCTIC BLAST - EXISTING
- 14 - FOUNTAIN DRINKS - EXISTING

- 3 - AWS 91SE-960
- 4 - AWS 91SE-860 - BRINE TANK
- 5 - AWS COM-111 800
- 6 - R.O. MATE 40
- 7 - PENTEK HOUSING W/ CARBON FILTER
- 8 - STERILIGHT S12Q-PA

POE WATER TREATMENT REPLACEMENTS AND ADDITIONS

PICACHO PEAK WATER COMPANY / DAIRY QUEEN

THE HARGREAVES COMPANY

SCHEMATIC #1

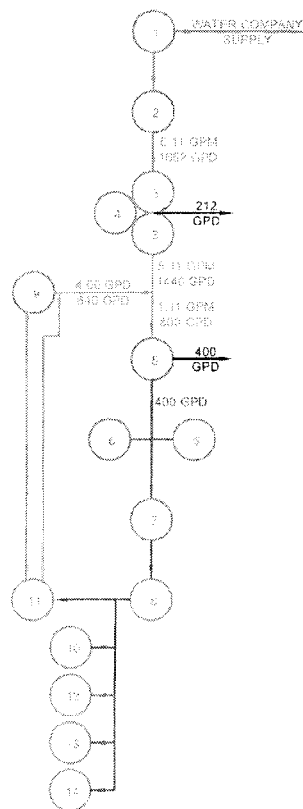
P.O. BOX 70
 PICACHO PEAK
 SAQUE, AZ 85346
 (928) 452-2647
 FAX (928) 452-3143

SHEET
 1

ATTACHMENT B

1	Picacho Peak Water Company		
2	Dairy Queen Treatment System		
3			
4	Fixtures		
5	ice machine		
6	triple sink faucet		
7	coffee machine		
8	arctic blast		
9	fountain drinks		
10	Fixtures	number	5.00
11	Equivalent drink size	oz	32.00
12		gal	0.25
13	Equivalent drink fill time	sec	30.00
14		min	0.50
15	Single fill rate	gpm	0.50
16	Total demand	gpm	2.50
17	Pressure tank drawdown	gal	20.00
18	Pressure tanks	number	2.00
19	Required total pressure tank drawdown	gal	40.00
20	Pressure tank drawdown time	min	16.00
21	Permeate per cycle	gal	40.00
22	Equivalent drinks served per cycle	number	160.00
23	Pressure tank fill rate	gpm	0.56
24	Pressure tank fill time	hrs	1.20
25	Cycle time	hrs	1.47
26	Softened Water		
27	Fixtures		
28	water heater		
29	triple sink		
30	total		2.00
31	Demand	gpm	4.00
32	RO recovery		50.00%
33	RO demand	gpm	1.11
34	Total softened water demand	gpm	5.11
35	Raw water demand	gpm	5.11
36	Daily Volumes		
37	RO permeate	gpd	400.00
38	RO recovery		50.00%
39	RO softened water	gpd	800.00
40	Other softened water	gpd	640.00
41	Total softened water	gpd	1,440.00
42	Softened water between regenerations	gpd	1,085.71
43	Daily regenerations		1.33
44	Wastewater / regeneration	gal	160.00
45		gpd	212.21
46	RO + softener wastewater	gpd	612.21
47	Total raw water use	gpd	1,652.21
48	Softener salt use	#/regen	25.00
49		#/day	33.16
50			

ATTACHMENT C



RED - RAW WATER
 GREEN - COLD WATER
 BLUE - R.O. WATER
 BLACK - WASTE WATER

- 1 - STORAGE TANK - EXISTING
 - 2 - PRESSURE PUMP TO BUILDING - EXISTING
 - 3 - WATER SOFTENER (TWIN ALTERNATING) - REPLACE
 - 4 - SALT TANK - REPLACE
 - 5 - R.O. SYSTEM (800 GPD) - ADD - SEE SCHEMATIC #2
 - 6 - R.O. STORAGE TANK (20 GAL.) - ADD
 - 7 - FINAL CARBON FILTER - ADD
 - 8 - U.V. DISINFECTION - ADD
 - 9 - WATER HEATER - EXISTING
 - 10 - ICE MACHINE - EXISTING
 - 11 - TRIPLE SINK - EXISTING - ADD R.O. FAUCET
 - 12 - COFFEE MACHINE - EXISTING
 - 13 - ARCTIC BLAST - EXISTING
 - 14 - FOUNTAIN DRINKS - EXISTING
- 3 - AWS 91SE-960
 4 - AWS 91SE-960 BRINE TANK
 5 - AWS COM-111 800
 6 - R.O. MATE 40
 7 - PENTEK HOUSING W/ CARBON FILTER
 8 - STERILIGHT S12Q-PA

POE WATER TREATMENT REPLACEMENTS AND ADDITIONS

PICACHO PEAK WATER COMPANY / DAIRY QUEEN

THE HARGUVAR COMPANY

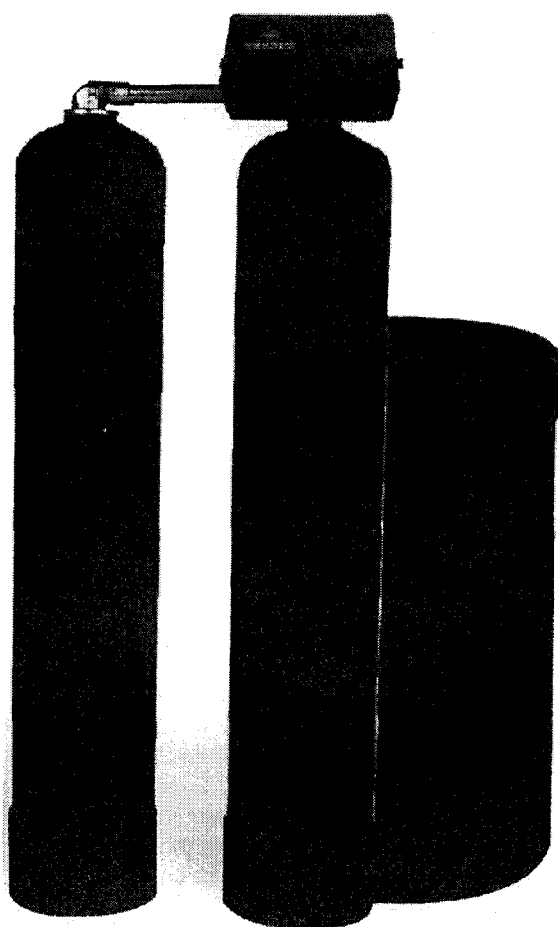
P.O. BOX 70
 68728 HWY. 50
 SUITE 100
 (402) 850-3348
 FAX (402) 850-3145

SCHEMATIC #1

SHEET
 1 OF 2

AWS LCTA-91 Twin Alternating Tank Softeners

SCH. 1 #3 & 4



Ideal softeners when soft water is required 24/7, without interruption.

Suitable for light commercial applications ranging from 20,000 to 120,000 grains of hardness removal capacity, at flow rates to 24 GPM.

Specifications

Valve	Fleck 9100 SE & ET
Valve body	Brass
Pipe sizes	3/4" and 1"
Types	Metered & Electronic
By-pass	Additional (LCT A-75 included)
Mineral tanks	Corrosion resistant FRP, NSF.
Brine tanks	Polyethylene; fully assembled
Media	Cation resin; high capacity

Features & benefits

- Economical pricing!
- Top quality components
- Models for capacities to 120,000 grains
- Fleck 9100 SE and ET control valves with meter and electronic options
- Brine tanks with grid plate for maximum saturation of brine
- Stainless steel by-pass valve is for 3/4" only
- Safety brine valve with air check.

LCTA- 91 twin tank softeners with FM9100SE metered (3/4") control valves

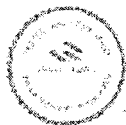
Part Number	Capacity (Max.)	Pipe Size (in.)	Size	Mineral Tank Resin Cu. Ft.	Gravel #20 (Lbs.)	Brine Tank Size	Salt Fill (Lbs.)	Flow Rate Service Flow (GPM)	Pressure Drop (PSI)	Back Wash (GPM)	Shipping Weight (Lbs.)
91SE-320	32,000	3/4"	9X48	1	15	18x40	400	13-19	15-25	2	230
91SE-480	48,000	3/4"	10X54	1.5	20	18x40	400	14-21	15-25	2.4	290
91SE-640	60,000	3/4"	12X52	2	30	18x40	400	15-21	15-25	3.5	420
91SE-800	75,000	3/4"	13X54	2.5	45	18x40	400	15-21	15-25	4	460
91SE-960	90,000	3/4"	14X65	3	60	18x40	400	17-22	15-25	5	500
91SE-1200	120,000	3/4"	16X65	4	80	18x40	400	17-24	15-25	7	650

LCTA-91 twin tank softeners with metered FM9100ET (1") control valves

Part Number	Capacity (Max.)	Pipe Size (in.)	Size	Mineral Tank Resin Cu. Ft.	#20 Gravel (Lbs.)	Brine Tank Size	Salt Fill (Lbs.)	Flow Rate Service Flow (GPM)	Pressure Drop (PSI)	Back Wash (GPM)	Shipping Weight (Lbs.)
91ET-320	30,000	1"	9X48	1	15	18x40	400	13-19	15-25	2	230
91ET-480	45,000	1"	10X54	1.5	20	18x40	400	14-21	15-25	2.4	290
91ET-640	60,000	1"	12X52	2	30	18x40	400	15-21	15-25	3.5	420
91ET-800	75,000	1"	13X54	2.5	45	18x40	400	15-21	15-25	4	460
91ET-960	90,000	1"	14X65	3	60	18x40	400	17-22	15-25	5	500
91ET-1200	120,000	1"	16X65	4	80	18x40	400	17-24	15-25	7	650

Water Quality Association

3/31/2015

CERTIFIED HOUSEHOLD AND COMMERCIAL CATION EXCHANGE
WATER SOFTENERS

*NSF/ANSI 44 (10/16/2014): Residential Cation Exchange Water Softeners
is within WQA's ANSI and SCC approved scope of accreditation under the
Drinking Water Treatment Units Scheme*

Pentair Residential Filtration, LLC

5730 N Glen Park Rd

Milwaukee, WI 53209

United States

<http://www.Pentairagua.com> (<http://www.Pentairagua.com>)

Product Type: DIR-Efficiency Rated

Brand Name	Model Number	Flow Rate (GPM)	NSF 44 Efficiency Rated (Yes/No)	CA Efficiency Rated (Yes/No)	Reduction Claims
	PRF 26K	8.0	Y	Y	Hardness
	PRF 34K	9.6	Y	Y	Hardness
	PRF 40K	10.7	Y	Y	Hardness

Product Type: Component

Autotrol	363	N/A	NA	NA	Not Applicable
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Facility: Brookfield, WI

Product Type: DIR-Efficiency Rated

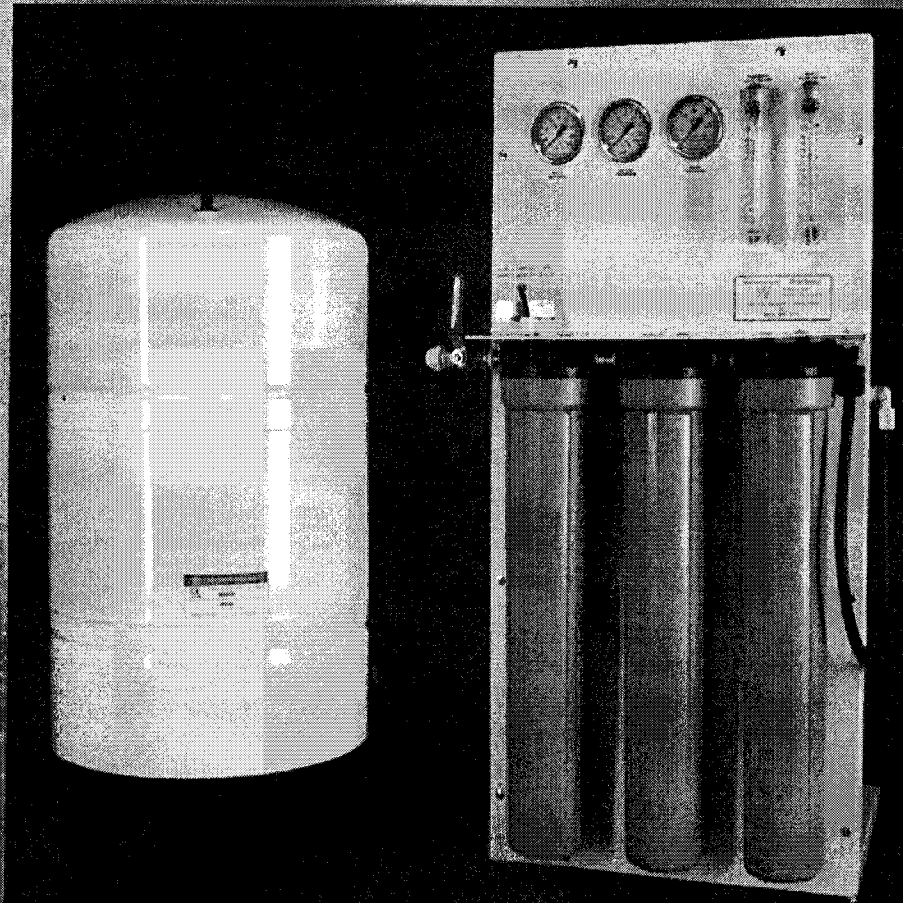
Brand Name	Model Number	Flow Rate	NSF 44	CA Efficiency	Reduction
------------	--------------	-----------	--------	---------------	-----------

Fleck	5700 XTR-2.0	12.5	Y	N	Hardness
Fleck	7000 SXT-1.0	15.2	Y	N	Hardness
Fleck	7000 SXT-1.25	16.4	Y	Y	Hardness
	²				
Fleck	7000 SXT-1.5	15.6	Y	Y	Hardness
Fleck	7000 SXT-2.0	18.4	Y	Y	Hardness
Fleck	7000 SXT-2.33	20.5	Y	Y	Hardness
	³				
Fleck	7000 SXT-3.0	19.6	Y	Y	Hardness
Fleck	9000-1.5	10.9	Y	Y	Hardness
Fleck	9000-2.0	11.7	Y	Y	Hardness
Fleck	9000-2.5	12.5	Y	Y	Hardness
Fleck	9000-3.0	11.9	Y	Y	Hardness
Fleck	9000-4.0	13.3	Y	Y	Hardness
Fleck	9100-1.5	10.9	Y	Y	Hardness
Fleck	9100-2.0	11.7	Y	Y	Hardness
Fleck	9100-2.5	12.5	Y	Y	Hardness
Fleck	9100-3.0	11.9	Y	Y	Hardness
Fleck	9100-4.0	13.3	Y	Y	Hardness
Fleck	ProFlo SXT-0.75	11.1	Y	N	Hardness
	²				
Fleck	ProFlo SXT-1.0	12.0	Y	Y	Hardness
	²				
Fleck	ProFlo SXT-1.25	13.0	Y	Y	Hardness
	²				
Fleck	ProFlo SXT-1.5	12.5	Y	Y	Hardness
	²				
Fleck	ProFlo SXT-1.75	14.3	Y	Y	Hardness
	²				
Fleck	ProFlo SXT-2.0	14	Y	Y	Hardness
	²				

Product Type: Fully Automatic

SCH. 1 #5

Commercial Reverse Osmosis Equipment Compact Series III



- Compact design requires minimal installation space
- Designed for municipal/tap water source
- Quality components utilized for system construction
 - Designed for optimum water recovery
 - Adjustable waste and recycle flow controls
 - Quick and easy system installation
- Available for pressure or open tank applications

Output Production: 150 gpd up to 800 gpd



Advanced Water Systems

- Thin Film Composite Membrane
- PVC membrane housing
- Powder-coated steel frame
- Inlet and outlet pre-filter gauges
- Liquid-filled system pressure gauge
- Pressurized tank pressure gauge
- Adjstbl. Waste/recycle needle valves
- High-pressure nylon tubing
- High-pressure brass comp. fittings
- Storage tank pressure switch
- Low-pressure switch
- Feed water inlet solenoid valve
- ½ hp 50/60 hz motor
- Rotary vane pump
- 20" 5 micron sediment pre-filter
- 20" carbon block pre-filter
- Salt rejection 95-99%

FEED WATER PARAMETERS:

Temp. 85 F maximum / Pressure 40 – 80 psi maximum / TDS 2000 ppm maximum. If higher consult factory / Iron tolerance 0.5 ppm maximum / Hydrogen sulfide must be removed / Silica tolerance can not be higher than 125 ppm in the concentrate stream. Antiscalant should be considered for any levels over 75 ppm. / Turbidity should be removed / Hardness over 10gpg should be softened.

OPERATING PARAMETERS:

Operating pressure 200 psi maximum / Water recovery is factory set at 33 – 35% / pH range 3-11/ Flow Rates are determined by the membrane mfg's. testing criteria of 1500 ppm NaCl solution, 77 F water temperature, 225 psi at 10-15% recovery. Actual flow rates may vary depending on the pre-treatment used, water conditions, system size, membrane array and applied pressure

OPTIONS:

- Float switch for atmospheric storage tank
- Stainless steel pump
- Stainless steel membrane housing
- Additional pre-treatment, see below:
- Product and waste flow meters
- Automatic hourly flush
- Manual flush
- Stainless steel needle valves

The pre-filtration on the COMPACT is sufficient for the 150 and 250 gpd models. It is advisable that additional pre-treatment be installed in front of the COMPACT for the 450 and 800 gpd models. Higher volumes of water passing through the COMPACT can shorten filter life

Model	GPD (minimum)	Membrane	Piping			Dimensions
			Inlet	waste	prod	
COM-III 150	150-200	2.5" X 14" 1 ea.	3/8"	3/8"	3/8"	14" X 16" X 30"H 85lbs
COM-III 250	300-400	2.5" X 21" 1 ea.	3/8"	3/8"	3/8"	14" X 16" X 30"H 88lbs
COM-III 450	500-600	4" X 14" 1 ea.	3/8"	3/8"	3/8"	14" X 16" X 30"H 92lbs
COM-III 800	800-900	4" X 21" 1 ea.	1/2"	3/8"	3/8"	14" X 16" X 30"H 95lbs

Advanced Water Systems 25438 N. 17th Ave., Phoenix, AZ, 85085 (602) 993-5771

ROmate Vessels

Product Features

- For residential and light commercial reverse osmosis applications
- A high-performance, high-value choice
- 100% seamless composite construction
- Discharges in any position
- NSF and/or FDA listed materials
- Meets stringent US requirements for water components
- Environmentally safe, 100% lead-free
- Will not introduce chemicals or elements into water
- Pre-installed inlet-outlet assembly - comes with system connections, saving time and money
- Factory-backed five-year warranty

Materials of Construction

- High density polyethylene inner liner
- Fiberglass-wound and epoxy resin-sealed outer shell

Operating Parameters

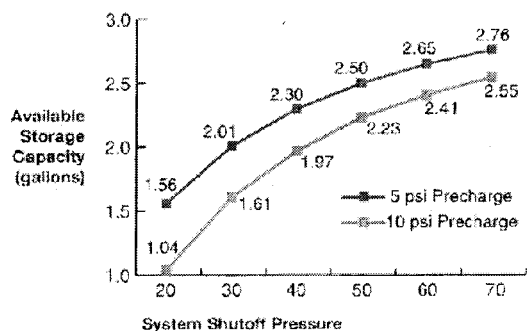
- Maximum operating pressure:
125 psi (RO15-RO80)
100 psi (RO4)
- Maximum operating temperature: 120°F



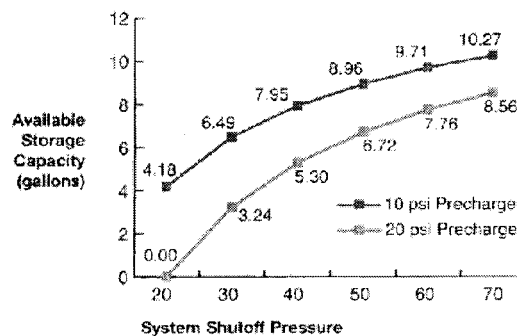
Specifications

Part No.	Model	System Connection	Height Inches / mm	Diameter Inches / mm	Capacity Gallons / Liters	Assembly Pounds / Kg
32875	ROmate 4 – Blank Label	1/4" male NPT 3/8" Post	19.25 / 489	9 / 229	3.6 / 13.6	8 / 3.6
30834	ROmate 15	1" male NPT	26.5 / 670	16 / 410	14.5 / 55.1	15 / 6.8
30839	ROmate 20	1" male NPT	32.25 / 820	16 / 410	19.8 / 75.2	19 / 8.6
30853	ROmate 30	1" male NPT	44 / 1120	16 / 410	29.5 / 112.1	23 / 10.5
30865	ROmate 40	1" male NPT	56.75 / 1440	16 / 410	40.3 / 153.1	30 / 13.6
31054	ROmate 80	1-1/4" male NPT	55.5 / 1410	24.25 / 620	86.7 / 329.5	58 / 26.4

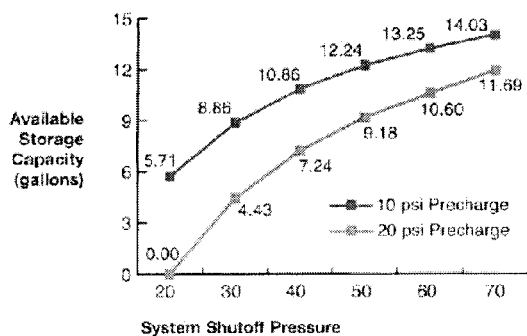
RO4



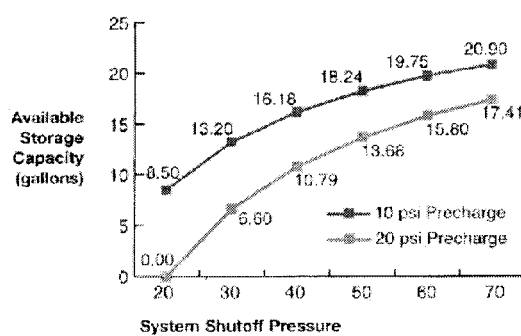
RO15



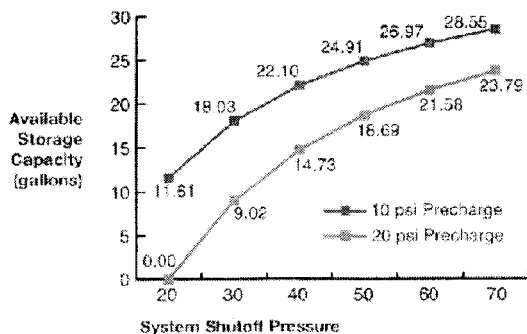
RO20



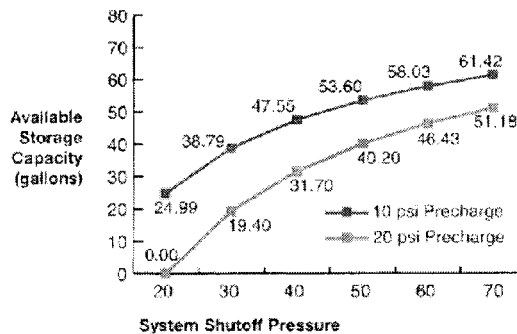
RO30

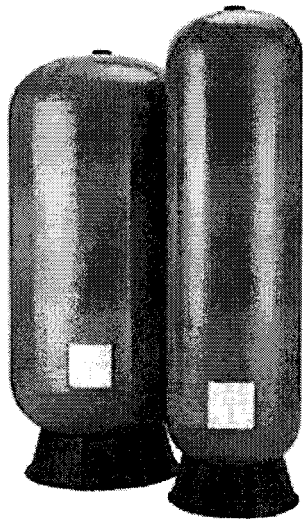


RO40



RO80





ROmate

High-performance, high-value vessels for residential and light commercial reverse osmosis applications. Specifically designed for reverse osmosis systems, these small vessels offer big advantages over competitive tanks via 100% seamless, composite construction, and the ability to discharge in any position. ROmate vessels feature a 5-year warranty.

- 100% seamless composite construction
- Discharges in any position
- Produced using NSF listed materials
- Meets stringent US requirements for water components
- Environmentally safe, 100% lead-free
- Will not introduce chemicals or elements into water
- Pre-installed inlet-outlet assembly; comes with system connections, saving time and money
- Factory-backed 5-year warranty
- Materials of construction
 - High density polyethylene inner liner
 - Fiberglass-wound and epoxy resin-sealed outer shell

- Maximum operating pressure:

- 125 psi (RO15-RO80)
- 100 psi (RO4)
- Maximum operating temperature: 120° F
- Image: ROmate
- Spec Sheet: ROmate Vessels (40848)
- Warranty: Limited - Global (40957)
- Warranty: Limited - FAQs (4002608)
- Instructions: Pressure Vessel - Lifting Handling and Installation (11967-A)

Printed copies also available at **PentairOnDemand.com** (<http://www.pentairondemand.com/>)

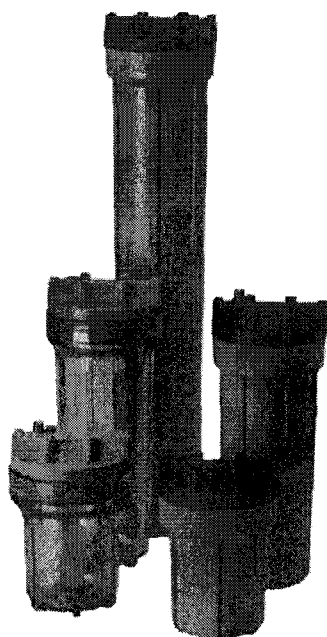
- Tested and Certified by the Water Quality Association (WQA) to NSF/ANSI Standard 61 section 8 and NSF/ANSI 372 for lead free compliance.



SCH. 1 #7

PENTEK® TRADITIONAL SLIM LINE® SERIES FILTER HOUSINGS

AN EXCELLENT CHOICE FOR LOW-FLOW APPLICATIONS & WHEN SPACE AND CHEMICAL COMPATIBILITY ARE PRIMARY CONCERNS



Pentair® Pentek® Slim Line® Filter Housings are available in either reinforced polypropylene or clear Styrene-Acrylonitrile (SAN) in 5", 10" and 20" lengths. The black or blue reinforced polypropylene housing caps are available with 1/4", 3/8" or 1/2" NPT connections. Four bosses are molded into every cap for mounting purposes.

They are equipped with a black, reinforced polypropylene cap and offer an optional pressure-relief button on the inlet side to relieve pressure inside the housing when changing filter cartridges.

Opaque Slim Line Filter Housings, molded from rugged reinforced polypropylene, offer outstanding chemical compatibility and are ideal for use in a variety of low-flow applications. These applications include under-sink and countertop residential filtration, pre- and post-reverse osmosis filtration, recreational vehicle filtration, foodservice and humidifying systems.

Clear Slim Line Filter Housings offer on-site examination of flow, performance, and cartridge life. They are also ideal for a variety of applications.

FEATURES/BENEFITS

Slim design reduces space required for installation without sacrificing capacity
Available in 5", 10" and 20" lengths

Optional pressure relief button on inlet side of cap
Leak-proof seal
Available with clear or opaque sumps

SPECIFICATIONS

Housing - Polypropylene (opaque) or Styrene Acrylonitrile (clear)
Cap - Reinforced polypropylene
Button Assembly - 300 Series stainless steel, EPDM, and polypropylene

O-Ring - Buna-N®
Temperature Rating - 40-125°F (4.4-51.7°C)
Maximum Pressure - 125 psi (8.6 bar)



The 158005, 158006, 158098, 158114, 158115, 158120, 158125, 158126, 158129, 158131, 158149, 158182, 158195, 158196, 158204, and 158205 are Tested and Certified by NSF International to NSF/ANSI Standard 42 for material and structural integrity requirements.

SPECIFICATIONS AND PERFORMANCE

PART #	DESCRIPTION	MAXIMUM DIMENSIONS	INITIAL ΔP (PSI) @ FLOW RATE (GPM)
158132	1/4" #5 Slim Line® Blue/Clear w/PR	7.38" x 4.63" (187 mm x 118 mm)	2 psi @ 3 gpm (0.14 bar @ 11 Lpm)
158133	1/4" #5 Slim Line Blue/Clear w/o PR	7.38" x 4.63" (187 mm x 118 mm)	2 psi @ 3 gpm (0.14 bar @ 11 Lpm)
158136	1/4" #5 Slim Line Black/Blue w/o PR	7.38" x 4.38" (187 mm x 111 mm)	2 psi @ 3 gpm (0.14 bar @ 11 Lpm)
158676	1/4" #5 Slim Line White/White w/o PR	7.38" x 4.38" (187 mm x 111 mm)	2 psi @ 3 gpm (0.14 bar @ 11 Lpm)
158114*	1/4" #10 Slim Line Black/Blue w/o PR	11.75" x 4.38" (298 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158115*	1/4" #10 Slim Line Black/Blue w/PR	11.75" x 4.38" (298 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158116	1/4" #10 Slim Line Blue/Clear w/o PR	12.13" x 4.63" (308 mm x 118 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158117	1/4" #10 Slim Line Blue/Clear w/PR	12.13" x 4.63" (308 mm x 118 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158120*	1/4" #10 Slim Line Black/Black w/o PR	11.75" x 4.38" (298 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158125*	1/4" #10 Slim Line White/White w/o PR	11.75" x 4.38" (298 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158126*	1/4" #10 Slim Line White/Black w/o PR	11.75" x 4.38" (298 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158162*	1/4" #10 Slim Line White/White w/PR	11.75" x 4.38" (298 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158326	1/4" #10 Slim Line Clear/White w/o PR	11.75" x 4.38" (298 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158131*	1/4" #20 Slim Line Black/Blue w/o PR	21.88" x 4.38" (556 mm x 111 mm)	3 psi @ 5 gpm (0.21 bar @ 19 Lpm)
158841	1/4" #20 Slim Line White/White w/o PR	21.88" x 4.38" (556 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158002	3/8" #5 Slim Line Black/Blue w/PR	7.38" x 4.38" (187 mm x 111 mm)	2 psi @ 3 gpm (0.14 bar @ 11 Lpm)
158003	3/8" #5 Slim Line Black/Blue w/o PR	7.38" x 4.38" (187 mm x 111 mm)	2 psi @ 3 gpm (0.14 bar @ 11 Lpm)
158110	3/8" #5 Slim Line Blue/Clear w/PR	7.38" x 4.63" (187 mm x 118 mm)	2 psi @ 3 gpm (0.14 bar @ 11 Lpm)
158111	3/8" #5 Slim Line Blue/Clear w/o PR	7.38" x 4.63" (187 mm x 118 mm)	2 psi @ 3 gpm (0.14 bar @ 11 Lpm)
158005*	3/8" #10 Slim Line Black/Blue w/PR	11.75" x 4.38" (298 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158006*	3/8" #10 Slim Line Black/Blue w/o PR	11.75" x 4.38" (298 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158007	3/8" #10 Slim Line Blue/Clear w/PR	12.13" x 4.63" (308 mm x 118 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158008	3/8" #10 Slim Line Blue/Clear w/o PR	12.13" x 4.63" (308 mm x 118 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158149*	3/8" #10 Slim Line White/White w/PR	11.75" x 4.38" (298 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158098*	3/8" #10 Slim Line White/White w/o PR	11.75" x 4.38" (298 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158129*	3/8" #20 Slim Line Black/Blue w/o PR	21.88" x 4.38" (556 mm x 111 mm)	3 psi @ 5 gpm (0.21 bar @ 19 Lpm)
158842	3/8" #20 Slim Line White/White w/o PR	21.88" x 4.38" (556 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158203	1/2" #5 Slim Line Black/Blue w/PR	7.38" x 4.38" (187 mm x 111 mm)	2 psi @ 3 gpm (0.14 bar @ 11 Lpm)
158195*	1/2" #10 Slim Line Black/Blue w/PR	11.75" x 4.38" (298 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158196*	1/2" #10 Slim Line Black/Blue w/o PR	11.75" x 4.38" (298 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158214	1/2" #10 Slim Line Blue/Clear w/PR	12.13" x 4.63" (308 mm x 118 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158215	1/2" #10 Slim Line Blue/Clear w/o PR	12.13" x 4.63" (308 mm x 118 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158583	1/2" #10 Slim Line Black/Black w/o PR	11.75" x 4.38" (298 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158765	1/2" #10 Slim Line White/White w/o PR	11.75" x 4.38" (298 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158204*	1/2" #20 Slim Line Black/Blue w/PR	21.88" x 4.38" (556 mm x 111 mm)	3 psi @ 5 gpm (0.21 bar @ 19 Lpm)
158205*	1/2" #20 Slim Line Black/Blue w/o PR	21.88" x 4.38" (556 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)
158843	1/2" #20 Slim Line White/White w/o PR	21.88" x 4.38" (556 mm x 111 mm)	2 psi @ 5 gpm (0.14 bar @ 19 Lpm)

CAUTION: Protect against freezing to prevent cracking of the filter and water leakage.

*NSF listed

ACCESSORIES

PART #	DESCRIPTION
150539	SW-1A Wrench for Slim Line
155003	Cartridge Coupler for Standard Cartridges
151121	Buna-N® #237 O-ring for Slim Line
158095	Viton® #237 O-ring for Slim Line
158095	Silicone #239 O-ring for Slim Line
244047	SL-ZP Kit - Zinc Plated Bracket for Slim Line
337638	SL-SS - Stainless Steel Bracket ONLY for Slim Line
357644	SL-SS Kit - Stainless Steel Bracket for Slim Line
244046-00	SL-ZP - Zinc Plated Bracket ONLY for Slim Line
244027-02	Two-Housing System Bracket



FILTRATION & PROCESS

5730 NORTH GLEN PARK ROAD, MILWAUKEE, WI 53209

P: 262.238.4400 | F: 262.238.4404 | WWW.PENTAIRAQUA.COM | CUSTOMER CARE: 800.279.9404

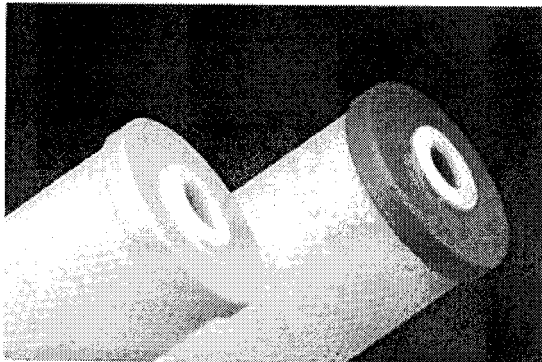
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CB Series Carbon Block Filters

HYDRONIX
WATER TECHNOLOGY

Filters & Cartridges



Hydronix CB Series Carbon Block Filters

are manufactured with high purity coconut shell carbon and are available in a wide range of lengths, diameters, and micron ratings. Hydronix CB Series Carbon Block Filters provide an excellent cost-to-performance value. With high chlorine reduction, great dirt-holding capacity, and greatly reduced carbon fines, you will soon make the CB series your carbon block of choice.

Hydronix CB Series Carbon Block Filters

are ideal for point-of-use (POU) and Reverse Osmosis applications. Hydronix CB Series Carbon Block Filters can be used in a wide range of applications such as residential, food service, commercial, and industrial. The CB Series carbon blocks are great for displacing traditional GAC (Granular Activated Carbon) and PAC (Powdered Activated Carbon) filters in application where high chlorine reduction is needed.

2.5" DIAMETER SPECIFICATIONS

	Part Number	Description	Chlorine Capacity* (GALLONS)	Micron Rating Nominal*	Initial ΔP (psi) at Flow Rate (GPM)	Case Quantity	Box Dimension (Inches)	Weight (lbs)	Weight (kg)
4 7/8"	CB-25-0505	2.5" x 4 7/8"	3,000 at 1 gpm	5 μm	2.0 psid at 1.0 gpm	40	16 x 13 x 12	20	9.07
	SMCB-25-10	2.5" x 9 7/8"	20,000 at 0.5 gpm	0.5 μm	4.0 psid at 0.5 gpm	20	16 x 13 x 12	21	9.53
9 7/8"	CB-25-1001	2.5" x 9 7/8"	6,000 at 0.75 gpm	1 μm	4.0 psid at 0.75 gpm	20	16 x 13 x 12	21	9.53
	CB-25-1005	2.5" x 9 7/8"	6,000 at 1 gpm	5 μm	2.0 psid at 1.0 gpm	20	16 x 13 x 12	20	9.07
	CB-25-1010	2.5" x 9 7/8"	6,000 at 1.5 gpm	10 μm	2.0 psid at 1.0 gpm	20	16 x 13 x 12	20	9.07
	SMCB-2520	2.5" x 20"	40,000 at 1 gpm	0.5 μm	4.0 psid at 1 gpm	20	16 x 13 x 21	37	16.78
20"	CB-25-2001	2.5" x 20"	12,000 at 1.5 gpm	1 μm	4.0 psid at 1.5 gpm	20	16 x 13 x 21	37	16.78
	CB-25-2005	2.5" x 20"	9,000 at 2 gpm	5 μm	2.0 psid at 2.0 gpm	20	16 x 13 x 21	35	15.88
	CB-25-2010	2.5" x 20"	9,000 at 2.5 gpm	10 μm	2.0 psid at 2.0 gpm	20	16 x 13 x 21	35	15.88

4.5" DIAMETER SPECIFICATIONS

	Part Number	Description	Chlorine Capacity* (GALLONS)	Micron Rating Nominal*	Initial ΔP (psi) at Flow Rate (GPM)	Case Quantity	Box Dimension (Inches)	Weight (lbs)	Weight (kg)
9 7/8"	CB-45-1001	4.5" x 9 7/8"	20,000 at 2.5 gpm	1 μm	7.0 psid at 2.5 gpm	9	15 x 15 x 12	28	12.70
	CB-45-1005	4.5" x 9 7/8"	12,000 at 3.5 gpm	5 μm	4.0 psid at 3.5 gpm	9	15 x 15 x 12	24	10.89
	CB-45-1010	4.5" x 9 7/8"	12,000 at 4.0 gpm	10 μm	4.0 psid at 4.0 gpm	9	15 x 15 x 12	24	10.89
	CB-45-2001	4.5" x 20"	17,000 at 1 gpm	1 μm	6.5 psid at 5.0 gpm	6	17 x 17 x 24	39	17.69
20"	CB-45-2005	4.5" x 20"	26,000 at 7 gpm	5 μm	4.5 psid at 7.0 gpm	6	17 x 17 x 24	36	16.33
	CB-45-2010	4.5" x 20"	26,000 at 8 gpm	10 μm	4.5 psid at 8.0 gpm	6	17 x 17 x 24	36	16.33

Tested and certified by NSF International to ANSI/NSF
Standard 42 for material requirements only.



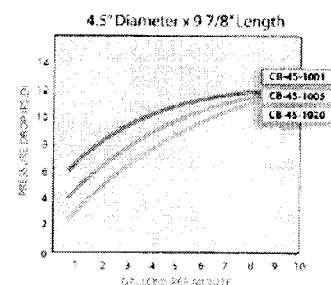
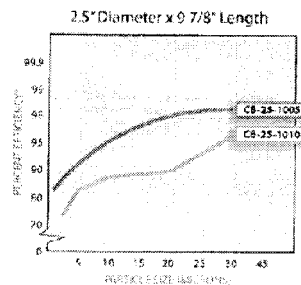
Product Specifications

Materials of Construction

Carbon: Coconut Shell Activated Carbon
Netting: Polypropylene
End Caps: Polypropylene
Gaskets: Neoprene
Outer Wrap: Polypropylene

Temperature Rating

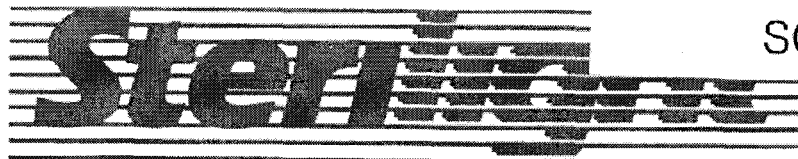
40°F to 180°F (4.4°C to 82.2°C)
Maximum Operating Pressure: 250 PSI
Maximum Differential Pressure: 100 PSID
Collapse Pressure: 200 PSID



*WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

NOTE: Performance capacity depends on system design, flow rate and certain other application conditions. CB Series carbon blocks will contain a very small amount of carbon fines (very fine black powder). After installation follow the instructions for flushing the cartridge to remove all traces of the fines before using the water. You should run (flush) the tap at least 20 seconds prior to using water for drinking or cooking purposes. This is particularly important if the tap has not been used daily.

NOTE: Micron ratings based on 85% or greater removal of given particle size.



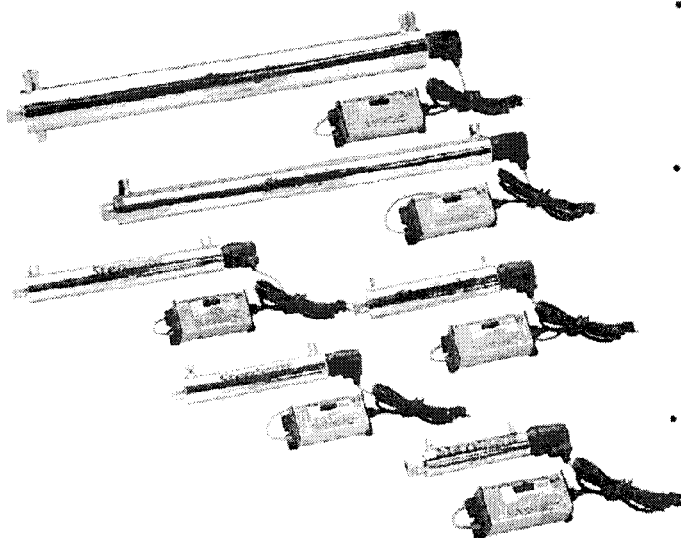
SCH. 1 #8

silver uv disinfection

model

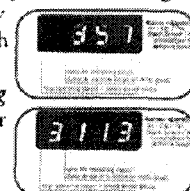
SQ-PA, S1Q-PA, S2Q-PA, S5Q-PA, S8Q-PA, S12Q-PA

This compact line of ultraviolet disinfection systems is ideally suited for point-of-use filtration, RO pre or post disinfection or with a myriad of other applications requiring the flexibility this design offers. The hard glass germicidal lamps provide an economical way of treating water requiring a 4-log (99.99%) reduction of bacteria and virus and protozoan cysts (*Giardia lamblia* and *Cryptosporidium*). This process is accomplished without adding any harmful chemicals to your drinking water. Sterilight is the most ecological way of treating your water... *and all for just pennies a day!* These disinfection systems are designed for easy homeowner maintenance. The UV lamp can be changed without interrupting the water flow. The quartz sleeve design allows for maximum UV output and operating efficiency.



In addition to bacteria (*E. coli*), virus, algae, mould and others, Sterilight UV systems are effective against protozoa such as *Cryptosporidium* and *Giardia lamblia*. UV effectively DESTROYS these protozoan cysts at dosage levels well within the levels delivered by all Sterilight ultraviolet disinfection systems.

- SQ-PA – flow rates of 5.7 L/min (1.5 gpm)
- S1Q-PA – flow rates of 7.5 L/min (2 gpm)
- S2Q-PA – flow rates of 11 L/min (3 gpm)
- S5Q-PA – flow rates of 22.7 L/min (6 gpm)
- S8Q-PA – flow rates of 37.9 L/min (10 gpm)
- S12Q-PA – high flow 57 L/min (15 gpm)
- **NEW Silver™** electronic controller featuring constant output current over the entire operating range independent of voltage or frequency. This switchable power supply covers 100-240V./50/60Hz. and comes with a 4-segment visual LED displaying *Lamp Life Remaining* and *Total Controller Running Time*. The controller has active power factor correction and comes in a redesigned water-tight enclosure
- **Sterilume™-EX** UV lamps, these hard glass, 254nm ultraviolet lamps feature advanced proprietary lamp coating allowing for consistent UV output over the life of the lamp coupled with uniform temperature distribution. The result is that Sterilume™-EX lamps provide the required output over the entire 9000 hour lamp life
- compact design incorporating 304 stainless steel reactor chambers, brilliantly polished for laboratory or medical applications
- easy servicing – no need to disconnect water flow to change UV lamp
- open end quartz sleeves and aluminum gland nuts for optimum operating temperature and sealing efficiency
- 4-log (99.99%) destruction of bacteria, virus and protozoan cysts (*Giardia lamblia* and *Cryptosporidium*) at rated flow
- nature's way to protect your water without the addition of harmful chemicals
- includes mounting clamps and hardware
- seven year warranty on reactor chamber for unparalleled protection
- drain port for reactor chamber flushing (for model S12Q-PA only)
- over-moulded connector allows for quick and simple removal of the lamp connector without any special tools or assistance.



ensuring the safety of your water

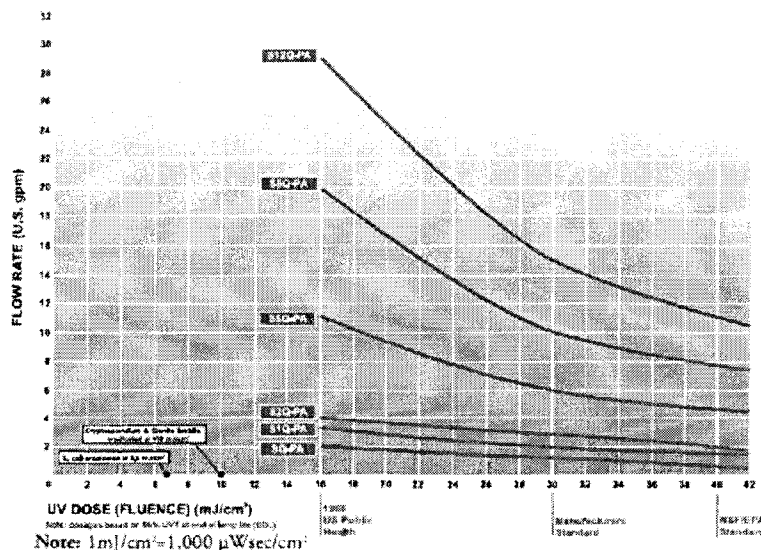
SQ-PA, S1Q-PA, S2Q-PA, S5Q-PA, S8Q-PA, S12Q-PA

SPECIFICATIONS	SQ-PA	S1Q-PA	S2Q-PA	S5Q-PA	S8Q-PA	S12Q-PA
Flow Rate^a						
US Public Health 16 m ³ /cm ²	7.5 lpm (2 gpm) (0.5 m ³ /Hr.)	12.3 lpm (3.3 gpm) (0.7 m ³ /Hr.)	15 lpm (4 gpm) (0.9 m ³ /Hr.)	41.6 lpm (11 gpm) (2.5 m ³ /Hr.)	75.7 lpm (20 gpm) (4.5 m ³ /Hr.)	110 lpm (29 gpm) (6.6 m ³ /Hr.)
R-Can Standard 30 m ³ /cm ²	5.7 lpm (1.5 gpm) (0.3 m ³ /Hr.)	7.5 lpm (2 gpm) (0.5 m ³ /Hr.)	11 lpm (3 gpm) (0.7 m ³ /Hr.)	22.7 lpm (6 gpm) (1.4 m ³ /Hr.)	37.9 lpm (10 gpm) (2.3 m ³ /Hr.)	57 lpm (15 gpm) (3.4 m ³ /Hr.)
NSF/EPA 40 m ³ /cm ²	1 lpm (0.5 gpm) (0.1 m ³ /Hr.)	5.5 lpm (1.5 gpm) (0.3 m ³ /Hr.)	7.5 lpm (2 gpm) (0.5 m ³ /Hr.)	17 lpm (4.5 gpm) (1.0 m ³ /Hr.)	29.3 lpm (7.8 gpm) (1.8 m ³ /Hr.)	42 lpm (11 gpm) (2.5 m ³ /Hr.)
Dimensions						
Length	30.5 cm (12")	38.1 cm (15")	43.2 cm (17")	56 cm (22")	90 cm (35")	94 cm (37")
Width	5.2 cm (2")	6.5 cm (2.5")	6.5 cm (2.5")	6.5 cm (2.5")	6.5 cm (2.5")	8.9 cm (3.5")
Height	5.2 cm (2")	6.5 cm (2.5")	6.5 cm (2.5")	6.5 cm (2.5")	6.5 cm (2.5")	8.9 cm (3.5")
Diameter	5.2 cm (2")	6.5 cm (2.5")	6.5 cm (2.5")	6.5 cm (2.5")	6.5 cm (2.5")	8.9 cm (3.5")
Inlet/Outlet Port Size	1/4" MNPT	1/4" MNPT	1/2" MNPT	3/4" MNPT	3/4" MNPT	Combo 3/4" FNPT/1" MNPT
Shipping Weight	2.3 kg (5 lbs.)	2.3 kg (5 lbs.)	2.7 kg (6 lbs.)	3.2 kg (7 lbs.)	4.5 kg (10 lbs.)	5.4 kg (12 lbs.)
Electrical						
Voltage ^b	100-240V/ 50-60Hz ^c	100-240V/ 50-60Hz ^c	100-240V/ 50-60Hz ^c	100-240V/ 50-60Hz ^c	100-240V/ 50-60Hz ^c	100-240V/ 50-60Hz ^c
Power Consumption	15 W	19 W	22 W	30 W	46 W	48 W
Lamp Watts	10 W	14 W	17 W	25 W	37 W	39 W
Maximum Operating Pressure	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)
Ambient Water Temperature	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)
Lamp Type	Sterilume™-EX (standard-output)					
Visual "Power-On"	Yes	Yes	Yes	Yes	Yes	Yes
Audible Lamp Failure	Yes	Yes	Yes	Yes	Yes	Yes
Lamp Replacement Reminder	Yes	Yes	Yes	Yes	Yes	Yes
Visual Lamp Life Remaining	Yes	Yes	Yes	Yes	Yes	Yes
Total Running Time	Yes	Yes	Yes	Yes	Yes	Yes
Chamber Material^d	304 S.S. ^e	304 S.S. ^e	304 S.S. ^e	304 S.S. ^e	304 S.S. ^e	304 S.S. ^e

^a Flow rates stated @ 95% UVT EOL

^b 12VDC available on request

^c 316L stainless steel available on request



Replacement Parts

- S212RL - replacement UV lamp for SQ-PA
- S287RL - replacement UV lamp for S1Q-PA
- S330RL - replacement UV lamp for S2Q-PA
- S463RL - replacement UV lamp for S5Q-PA
- S810RL - replacement UV lamp for S8Q-PA
- S36RL - replacement UV lamp for S12Q-PA
- QS-212 - quartz sleeve for SQ-PA
- QS-001 - quartz sleeve for S1Q-PA
- QS-330 - quartz sleeve for S2Q-PA
- QS-463 - quartz sleeve for S5Q-PA
- QS-810 - quartz sleeve for S8Q-PA
- QS-012 - quartz sleeve for S12Q-PA
- OR-212 - o-ring for all quartz sleeves
- BA-ICE-S - electronic ICE ballast (100-240V/50-60Hz)
- BA-RO/P/12 - 12VDC electronic ballast

Warranty Sterilight disinfection systems carry a seven year warranty on the stainless steel reactor chamber, a one year warranty on UV lamps and quartz sleeves, and a five year pro-rated warranty on all other components.

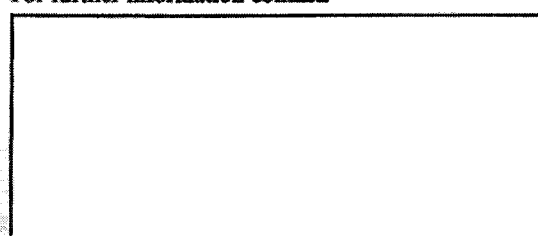
R-can
ENVIRONMENTAL INC.

425 Clair Rd. West, P.O. Box 1719
Guelph, Ontario, Canada N1L 1R1
t. 519.763.1032 • f. 519.763.5069
t.f. 1.800.265.7246
www.r-can.com • water@r-can.com

EPA Establishment #57987-CN-001

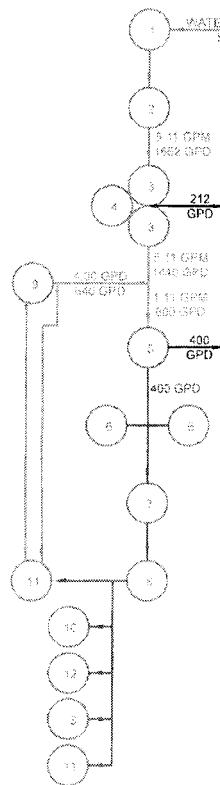


For further information contact:



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RED - RAW WATER
GREEN - SOFT WATER
BLUE - R.O. WATER
BLACK - WASTE WATER

- 1 - STORAGE TANK - EXISTING
- 2 - PRESSURE PUMP TO BUILDING - EXISTING
- 3 - WATER SOFTENER (TWIN ALTERNATING) - REPLACE
- 4 - SALT TANK - REPLACE
- 5 - R.O. SYSTEM (800 GPD) - ADD
- 6 - R.O. STORAGE TANK (20 GAL.) - ADD
- 7 - FINAL CARBON FILTER - ADD
- 8 - U.V. DISINFECTION - ADD
- 9 - WATER HEATER - EXISTING
- 10 - ICE MACHINE - EXISTING
- 11 - TRIPLE SINK - EXISTING - ADD R.O. FAUCET
- 12 - COFFEE MACHINE - EXISTING
- 13 - ARCTIC BLAST - EXISTING
- 14 - FOUNTAIN DRINKS - EXISTING

- 3 - AWS 91SE-960
- 4 - AWS 91SE-960 - BRINE TANK
- 5 - AWS COM-111 800
- 6 - R.O. MATE 40
- 7 - PENTEK HOUSING W/ CARBON FILTER
- 8 - STERILIGHT S12Q-PA

POE WATER TREATMENT REPLACEMENTS AND ADDITIONS

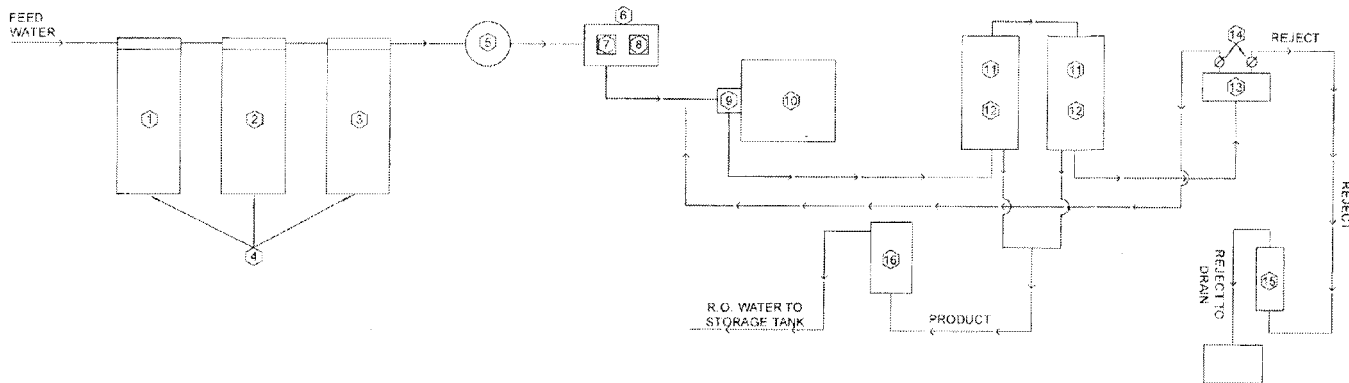
PICACHO PEAK WATER COMPANY / DAIRY QUEEN

THE HARGUVAR COMPANY

P.O. BOX 70
PATER MAY 60
PICACHO PEAK
TEL (928) 463-3445
FAX (928) 463-3145

SCHEMATIC #1

SHEET
1 OF 1



KEY #	DESCRIPTION	PART #	MANUFACTURER
1	20" SEDIMENT	SDC252656	HYDRONICS
2 & 3	20" CARBON BLOCK	CB252010	HYDRONICS
4	FILTER HOUSING	158205	PENTEK
5	ASCO SOLENOID VALVE	8212A518L1100FQ	ASCO
6	SCH80 PVC MANIFOLD BLOCK	NONE	SCH80 PVC BLOCK
7	LOW PRESSURE SWITCH	9013FRG22J2208	SQUARE D
8	HIGH PRESSURE SWITCH	9013FRG22J24CP	SQUARE D
9	HIGH PRESSURE PUMP	PB0601	FLUID Q TECH
10	1/2 HP MOTOR	E932	MARATHON MOTOR
11	MEMBRANE HOUSING	U2525.3	HYDROCOMPONENTS
12	R.O. MEMBRANE	MEM2528LP	HYDROCOMPONENTS
13	SCH80 PVC MANIFOLD (CUSTOM)	NONE	
14	1/4" BRASS BALL VALVE	56127	WOLVERINE BRASS
15	FLOW METER (REJECT)	3C-04	KING
16	FLOW METER (PRODUCT)	3C-04	KING

SCHEMATIC #2

AW5 COM-111 800 R.O. SYSTEM SCHEMATIC

PRACHO PEAK WATER CO. / DAIRY QUEEN

THE HARGUVER COMPANY

REVISION 01
07/2002
SALOME, AZ 85345
TEL: (520) 853-3145
FAX: (520) 853-3145

SHEET 2 OF 1

SCH. 2 #1

SDC Series Sediment Depth Cartridges

HYDRONIX
WATER TECHNOLOGY

Filters & Cartridges



Hydronix SDC Series 2.5" Diameter Cartridges

The Hydronix Series 2.5" diameter SDC cartridge is an economical solution to pre-filtration for many applications. SDC cartridges are widely used as pre-filtration for RO systems and post-filtration for GAC filters. They are also used in applications such as ice machines, film processing, beverage, coffee, analytical, wineries, and many others.

Hydronix SDC Series 4.5" Diameter Cartridges

Our 4.5" diameter SDC filters have true multi-stage depth filtration integrated into their design. Utilizing our technology to create four separate layers of micron filtration, SDC cartridges allow the outer layer to trap the larger sized particles, resulting in a much lower pressure drop compared to conventional filters. Trapping various sized particles layer-by-layer, our SDC Series filters provide a much higher dirt holding capacity than standard spun polypropylene and string wound cartridges.

2.5" DIAMETER SPECIFICATIONS							
	Part Number	Description	Micron Rating	Case Quantity	Box Dimension (Inches)	Weight (lbs)	Weight (kg)
4 7/8"	SDC-25-0501	2.5" x 4 7/8"	1	80	13 x 11 x 21	14	6.35
	SDC-25-0505	2.5" x 4 7/8"	5	80	13 x 11 x 21	14	6.35
	SDC-25-0510	2.5" x 4 7/8"	10	80	13 x 11 x 21	14	6.35
9 1/4"	SDC-25-1001	2.5" x 9 1/4"	1	40	13 x 11 x 21	14	6.35
	SDC-25-1005	2.5" x 9 1/4"	5	40	13 x 11 x 21	14	6.35
	SDC-25-1010	2.5" x 9 1/4"	10	40	13 x 11 x 21	14	6.35
	SDC-25-1020	2.5" x 9 1/4"	20	40	13 x 11 x 21	14	6.35
	SDC-25-1050	2.5" x 9 1/4"	50	40	13 x 11 x 21	14	6.35
20"	SDC-25-2001	2.5" x 20"	1	20	13 x 11 x 21	14	6.35
	SDC-25-2005	2.5" x 20"	5	20	13 x 11 x 21	14	6.35
	SDC-25-2010	2.5" x 20"	10	20	13 x 11 x 21	14	6.35
	SDC-25-2020	2.5" x 20"	20	20	13 x 11 x 21	14	6.35
	SDC-25-2050	2.5" x 20"	50	20	13 x 11 x 21	14	6.35
	SDC-25-3001	2.5" x 30"	1	20	31 x 11 x 13	18	8.16
30"	SDC-25-3005	2.5" x 30"	5	20	31 x 11 x 13	18	8.16
	SDC-25-3010	2.5" x 30"	10	20	31 x 11 x 13	18	8.16
	SDC-25-3025	2.5" x 30"	25	20	31 x 11 x 13	18	8.16
	SDC-25-3075	2.5" x 30"	75	20	31 x 11 x 13	18	8.16
40"	SDC-25-4001	2.5" x 40"	1	20	41 x 11 x 13	23	10.43
	SDC-25-4005	2.5" x 40"	5	20	41 x 11 x 13	23	10.43
	SDC-25-4010	2.5" x 40"	10	20	41 x 11 x 13	23	10.43
	SDC-25-4025	2.5" x 40"	25	20	41 x 11 x 13	23	10.43
	SDC-25-4075	2.5" x 40"	75	20	41 x 11 x 13	23	10.43

4.5" DIAMETER SPECIFICATIONS							
	Part Number	Description	Micron Rating	Case Quantity	Box Dimension (Inches)	Weight (lbs)	Weight (kg)
10"	SDC-45-1001	4.5" x 9 7/8"	1	12	14 x 10 x 21	12	5.44
	SDC-45-1005	4.5" x 9 7/8"	5	12	14 x 10 x 21	12	5.44
	SDC-45-1010	4.5" x 9 7/8"	10	12	14 x 10 x 21	12	5.44
	SDC-45-1020	4.5" x 9 7/8"	20	12	14 x 10 x 21	12	5.44
	SDC-45-1050	4.5" x 9 7/8"	50	12	14 x 10 x 21	12	5.44
20"	SDC-45-2001	4.5" x 20"	1	6	14 x 10 x 21	14	6.35
	SDC-45-2005	4.5" x 20"	5	6	14 x 10 x 21	14	6.35
	SDC-45-2010	4.5" x 20"	10	6	14 x 10 x 21	14	6.35
	SDC-45-2020	4.5" x 20"	20	6	14 x 10 x 21	14	6.35
	SDC-45-2050	4.5" x 20"	50	6	14 x 10 x 21	14	6.35

Tested and certified by NSF International to ANSI/NSF Standard 42 for material requirements only.





SCH. 2 #2

CB SERIES Carbon Block Filters

Materials of Construction

Carbon:	Coconut shell	Netting:	Polypropylene
End caps:	Polypropylene	Gaskets:	Neoprene
Outer wrap:	Polypropylene	Temp. Ratings:	40°F to 180°F
Inner wrap:	Polypropylene		

Temperature Rating

40°F to 180°F (4°C to 82.2°C)

Maximum Operating Pressure: 250 PSID

Maximum Differential Pressure: 100 PSID

Collapse Pressure: 200 PSID

PERFORMANCE				
Item Number	Description	Chlorine Capacity*	Micron Rating Nominal*	Initial ΔP (PSID) at Flow Rate (gpm)*
CB-25-0505	2.5" x 4 7/8"	9,000	5 μm	2.0 psid at 1.0 gpm
5M/CB-2510	2.5" x 9 7/8"	20,000 at 1 gpm	0.5 μm	4.0 psid at 0.5 gpm
CB-25-1001	2.5" x 9 7/8"	6,000 at 0.75 gpm	1 μm	4.0 psid at 0.75 gpm
CB-25-1005	2.5" x 9 7/8"	6,000 at 1 gpm	5 μm	2.0 psid at 1.0 gpm
CB-25-1010	2.5" x 9 7/8"	6,000 at 1.5 gpm	10 μm	2.0 psid at 1.0 gpm
CB-25-2001	2.5" x 20"	12,000 at 1.5 gpm	1 μm	4.0 psid at 1.5 gpm
CB-25-2005	2.5" x 20"	9,000 at 2 gpm	5 μm	2.0 psid at 2.0 gpm
CB-25-2010	2.5" x 20"	9,000 at 2.5 gpm	10 μm	2.0 psid at 2.0 gpm
CB-45-1001	4.5" x 9 7/8"	20,000 at 2.5 gpm	1 μm	7.0 psid at 2.5 gpm
CB-45-1005	4.5" x 9 7/8"	12,000 at 3.5 gpm	5 μm	4.0 psid at 3.5 gpm
CB-45-1010	4.5" x 9 7/8"	12,000 at 4 gpm	10 μm	4.0 psid at 4 gpm
CB-45-2001	4.5" x 20"	12,000 at 1 gpm	1 μm	6.5 psid at 5.0 gpm
CB-45-2005	4.5" x 20"	26,000 at 7 gpm	5 μm	4.5 psid at 7.0 gpm
CB-45-2010	4.5" x 20"	26,000 at 8 gpm	10 μm	4.5 psid at 8.0 gpm

* Weights, chlorine capacity, micron rating, pressure drop, percent efficiency and initial ΔP (PSID) at flow rate tested by manufacturer and independent laboratory.

Not performance tested or certified by NSF.

WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

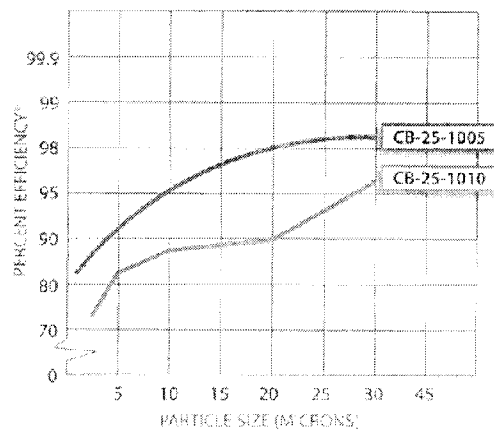
NOTE: Performance capacity depends on system design, flow rate and certain other application conditions. CB series cartridges will contain a very small amount of carbon fines (very fine black powder). After installation, follow the instructions for flushing the cartridge to remove all traces of the fines before using the water. You should run (flush) the tap at least 20 seconds prior to using water for drinking or cooking purposes. This is particularly important if the tap has not been used only.

NOTE: Micron ratings based on 95% or greater removal of green particle size.

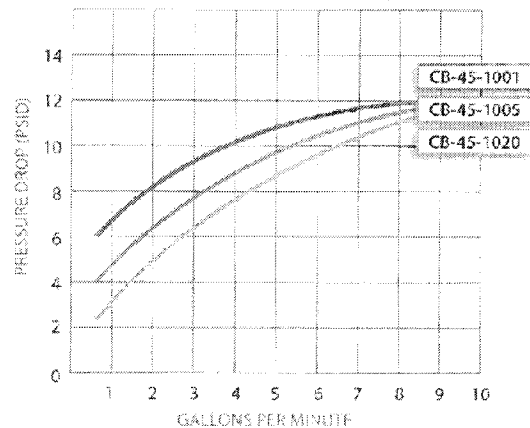
Tested and certified by NSF International to ANSI/NSF Standard 42 for material requirements only.



2.5" Diameter x 9 7/8" Length



4.5" Diameter x 9 7/8" Length



Distributed by:

HYDRONIX WATER TECHNOLOGY

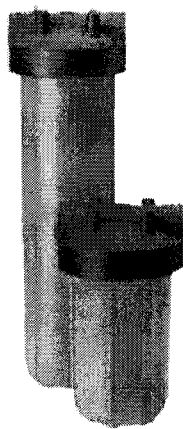
P.O. Box 2235 Chino Hills, CA 91709 USA

sales@hydronixwater.com • www.HydronixWater.com



PENTEK® BIG BLUE® HEAVY DUTY SERIES FILTER HOUSINGS

FOR LARGE CAPACITY, HIGH FLOW APPLICATIONS



Big Black not shown

Pentair® Pentek® Big Blue® and Big Black Heavy Duty Filter Housings offer the versatility to meet all of your large-capacity filtration needs, including high-flow and heavy-sediment applications. The extra large housing allows for greater cartridge capacity, reducing the number of vessels required for high flow-rate applications. Sumps are available in both 10" and 20" lengths.

The High-Flow Polypropylene (HFPP) cap is available with 3/4", 1" or 1-1/2" NPT inlet and outlet ports. The 1-1/2" internal port allows a greater volume of liquid to pass through the HFPP cap more rapidly.

Big Blue and Big Black Housings are compatible with a broad range of chemicals and are available with or without a pressure relief button. They accept a wide variety of 4-1/2" diameter cartridges.

FEATURES/BENEFITS

Large capacity housing suitable for high flow applications

Available in 10" and 20" lengths

Pressure relief/bleed on inlet side of cap

Accepts up to 4-1/2" diameter cartridges

SPECIFICATIONS

Housing - Polypropylene

Cap - Polypropylene (HFPP)

Button Assembly - 300-Series stainless steel, EPDM, and polypropylene

O-Ring - Buna-N

Temperature Rating
up to 100 F (40-37.8 C)

Maximum Pressure
10-100 psi (6.9 bar)
20-100 psi (6.9 bar)



The 150233, 150234, 150235, 150236, 150237, 150238, 150239, 150240, 150467, 150468, 150469, and 150470 are Tested and Certified by NSF International to NSF/ANSI Standard 42 for material and structural integrity by regular monitoring.



Water Conditioning & Purification Valves

Composite Body • 3/8" to 1" Pipe Size

Pilot Operated

2/2
SERIES
212

2-WAY

Applications

Water purification and conditioning in commercial/industrial markets, with membrane based reverse osmosis systems. Reverse osmosis systems are found in several drinking water applications from restaurant food and beverage equipment to grocery store produce misting.

Features

- Composite body valve
- 2-way, normally closed and normally open
- FasN™ connection system available in:
Turn & Lock • NPT thread • Solvent bond
- Tested and certified by NSF International
- UL and CSA recognized coils
- Mountable in any position, upright preferred

Construction

Valve Parts in Contact with Fluids	
Body	Composite, Engineered Plastic (PPE)
Core Tube / Bonnet	Stainless Steel
Core and Plugnut	Stainless Steel
Springs	Stainless Steel
Seals and Disc	EPDM, TPE
Shading Coil	Copper

Electrical

Connection Type	Standard Coil and Class of Insulation	Watt Rating and Power consumption				Spare coil Family	
		DC Watts	AC			DC	AC
			Watts	VA Holding	VA Inrush		
Normally Closed							
Conduit	F	6.9	6.3	8.8	12.1	400117	400117
Leaded	F	6.9	6.3	8.8	12.1	400117	400117
DIN	F	6.9	6.3	8.8	12.1	400127	400127
Normally Open							
Conduit	F	10	11	15.5	19.4	400119	433763
Leaded	F	10	11	15.5	19.4	400119	433763
DIN	F	10	11	15.5	19.4	400129	433765
Standard Voltages: AC: 24/60, 120/60, 240/60. DC: 12 and 24. Must be specified when ordering, see How to Order Chart.							

Standard Voltages: AC: 24/60, 120/60, 240/60 DC: 12 and 24.
Must be specified when ordering, see How to Order Chart.

Solenoid Enclosures

Conduit Hub

Open Frame (Leaded) 18" lead

DIN (11 mm Form B) – Watertight IP 65 when used with DIN connector kit for SC coils (see kits below).

Kits

Female DIN connector kit for coils 226061-001-*

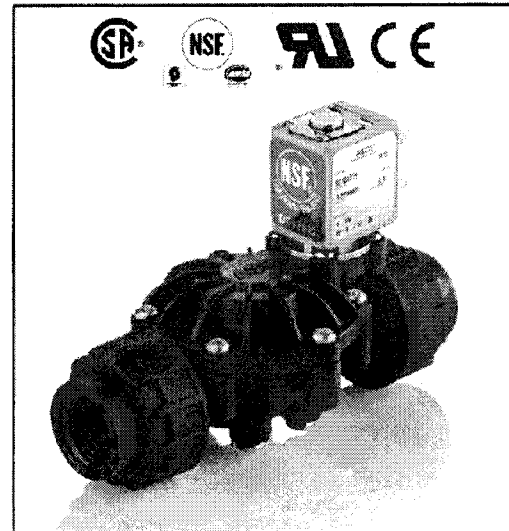
1/2" NPT conduit hub kit for leaded coils 224735-001-*

(Kits contains 10 pcs of each: connector, gasket, and attaching screw.)

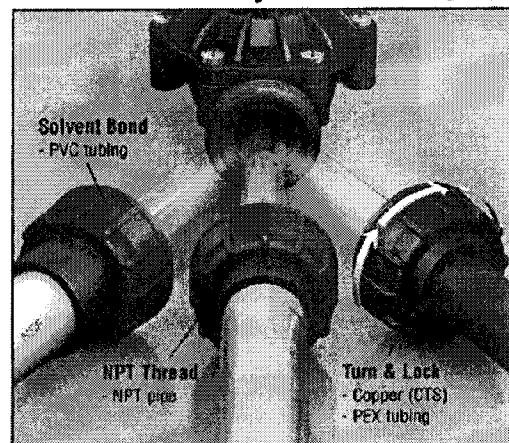
Mounting bracket kit = 297395-004

Kits for end connection

End Connection Type	Kit Numbers			
	3/8"	1/2"	3/4"	1"
NPT Thread Connector kit	M200339A00	M200099A00	M200102A00	M200342A00
Solvent Bond Connector kit	M200338A00	M200100A00	M200103A00	M200341A00
Turn & Lock Connector kit	M200340A00	M200101A00	M200104A00	M200343A00



FasN Connection System (See Ordering Page)



Nominal Ambient Temp. Ranges

Normally Closed AC & DC, Normally Open DC:

32°F to 120°F (0°C to 49°C)

Normally Open AC: 32°F to 100°F (0°C to 38°C)

Approvals

UL recognized coil – File E153691*

CSA certified coil – see CSA file No. 113111*

Meets applicable CE directives.

Tested and certified by NSF International:

- NSF 61 Annex G: Drinking Water System Components
- NSF 169: Special Purpose Food Equipment and Devices
- NSF 42: Drinking Water Treatment Units – Material and Structural Integrity Requirements
- NSF 372: Drinking Water System Components – Lead Content Certification

The NSF Certification Program is accredited by the Standards Council of Canada and ANSI.

*For UL & CSA approvals on NO AC coils, please consult ASCO.



Fluid-o-Tech
Solutions • MA • www.fluidotech.com • 800.551.0000
POWER THE FLOW

Brass rotary vane pumps PO 70-400 series



Find out more

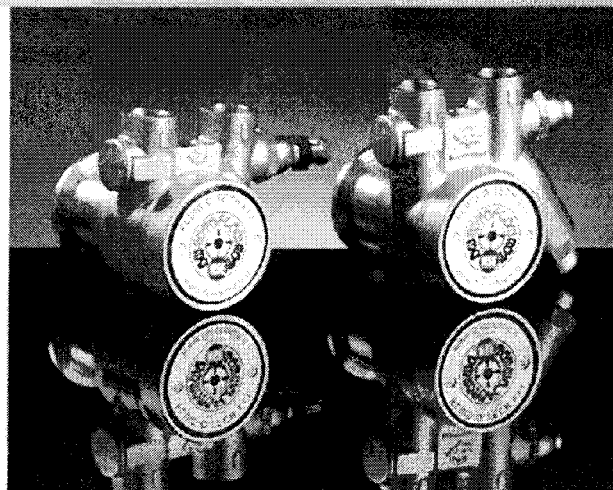
The rotary vane pumps, manufactured by Fluid-o-Tech and sold worldwide under the trademark Rotoflow, are volumetric pumps designed for pumping water and moderate aggressive liquids with low flow at high pressure.

Technical features and manufacturing characteristics

The rotary vane pump is brass made with a stainless steel AISI 303 rotor, while the pumping chamber and the vanes are in carbon graphite. The inlet and outlet ports are 3/8" GAS or NPT threaded. The pumps are designed to be directly mounted to the motor with a stainless steel clamp. For different mounting arrangements see our technical info "optional mountings".
Maximum operative temperature: 70 °C (158 °F).

Available upon request.

- Mion®EPDM seals
- Built-in relief valve
- Built-in 100 mesh strainer
- Flange mount
- California AFI 1953 compliant brass



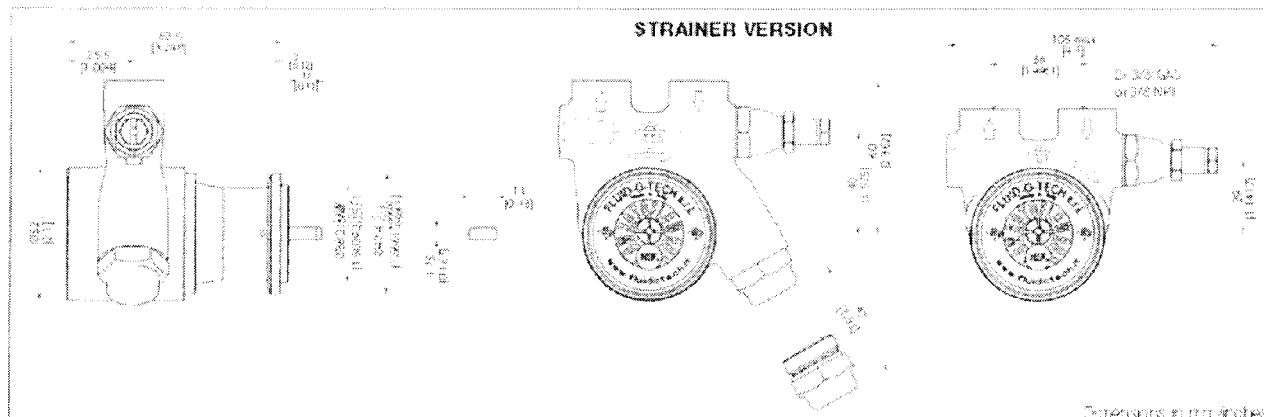
MANUSCRIPTS

- Beverage vending machines
- Post mix drink dispensers
- Espresso coffee machines
- Water treatment
- Water dispensers
- Cooling systems

WRAS
APPROVED
PRODUCT

VALENTIN V. KRYZHEVSKIY

Pump housing material	Brass	Max static pressure	20 bar/290 psi
Pumping chamber	Graphite	Pump weight (clamp mount)	w/o strainer 1.1 kg (2.5 lb) w/ strainer 1.3 kg (2.9 lb)
Ports	3/8" GAS or NPT		
Speed limit	1 725 rpm		



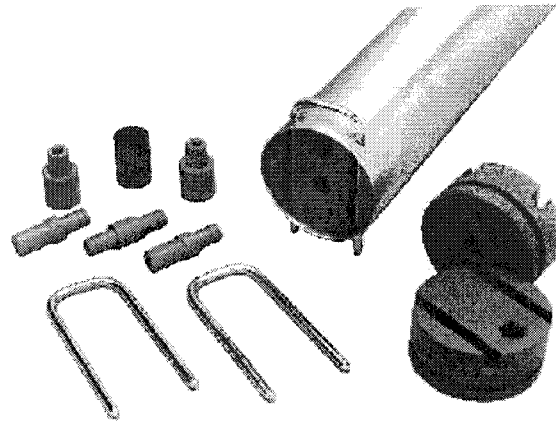
Contents of the Index

SCH. 2 #11

Hydrocomponents and Technologies, Inc.

VESSELS & ACCESSORIES

Stainless Steel U-Pin Pressure Vessels 300 PSI



Available in type 316SS or 304SS

Please specify at the time of the order

2000.3 Series
2500.3 Series
4000.1S Series

2.0" internal diameter.
2.5" internal diameter.
4.0" internal diameter.

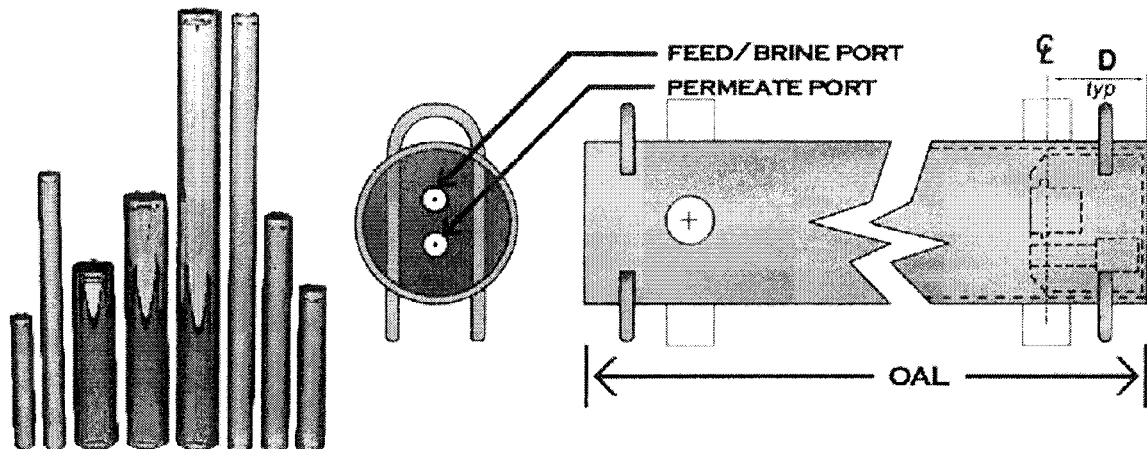
Features

- Durable corrosion resistant 304 or 316 Stainless Steel housing with standard satin finish.
- Self-locking 304 Stainless Steel U-Pin retaining devices for easy installation.
- Ethylene propylene FDA and NSF Approved "O" rings included.
- Flush mount easy aligning NSF Approved PVC end plugs make fitting installation effortless. Optional Acetal Co-polymer or 316 SS end cap materials are also available.
- Standard sizes include 14", 21", 40", and 80".
- Universal style models also manufactured to fit membrane of your choice.
- Maximum separation between permeate port and feed/concentrate port allow the use of large fittings.
- Other lengths available upon request.

Hydrocomponents and Technologies, Inc.

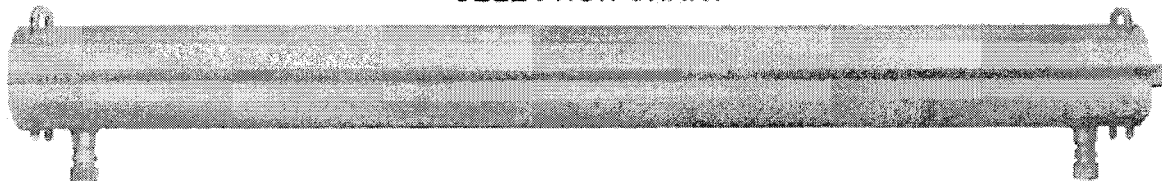
VESSELS & ACCESSORIES

Stainless Steel U-Pin Pressure Vessels 300 PSI



Vessel Series No.	NOMINAL		MODEL NUMBER	MEMBRANE SIZE	# OF MEM.	OAL IN.	PORT SIZES (NPT)			
	ID	OD					FEED	BRINE	PERM.	D
LARGER FEED AND BRINE PORTS AVAILABLE UPON REQUEST										
2000.3	2.0"	2.13"	2013.3	2.0"x13"	1	14.5	1/8	1/8	1/8	N/A
			2026.3	2.0"x26"	1	27.5	1/8	1/8	1/8	N/A
2500.3	2.5"	2.63"	2514.3	2.5"x14"	1	16.5	1/4	1/4	1/4	N/A
			2521.3	2.5"x21"	1	23.5	1/4	1/4	1/4	N/A
			2527.3	2.5"x27"	1	29.5	1/4	1/4	1/4	N/A
			2540.3	2.5"x40"	1	42.5	1/4	1/4	1/4	N/A
4000.1S	4.0"	4.19"	4014.1S	4.0"x14"	1	16.5	1/2	1/2	1/2	N/A
			4021.1S	4.0"x21"	1	23.5	1/2	1/2	1/2	N/A
			4040.1S	4.0"x40"	1	42.5	1/2	1/2	1/2	N/A
			*U4040.1S	4.0"x40"	1	46.5	1/2	1/2	1/2	N/A
			*U4040.1 S/SE	4.0"x40"	1	46.5	1	1	1/2	2.75"
			*U4080.1S	4.0"x40"	2	86.5	1/2	1/2	1/2	N/A
			*U4080.1 S/SE	4.0"x40"	2	86.5	1	1	1/2	2.75"
			*U40120.1S	4.0"x40"	3	126.5	1/2	1/2	1/2	N/A
			*U40120.1 S/SE	4.0"x40"	3	126.5	1	1	1/2	2.75"
			*U40160.1S	4.0"x40"	4	166.5	1/2	1/2	1/2	N/A
			*U40160.1 S/SE	4.0"x40"	4	166.5	1	1	1/2	2.75"
			*U40200.1S	4.0"x40"	5	206.5	1/2	1/2	1/2	N/A
			*U40200.1 S/SE	4.0"x40"	5	206.5	1	1	1/2	2.75"

SELECTION CHART



SCH. 2 #12

Hydrocomponents & Technologies, Inc.

www.hcti.com

1175-H Park Center Drive Vista, CA 92081 U.S.A

Tel: (760) 598-0189

Fax: (760) 598-2589

sales@hcti.com

REVERSE OSMOSIS 2.5 INCH LOW PRESSURE MEMBRANE SPECIFICATIONS

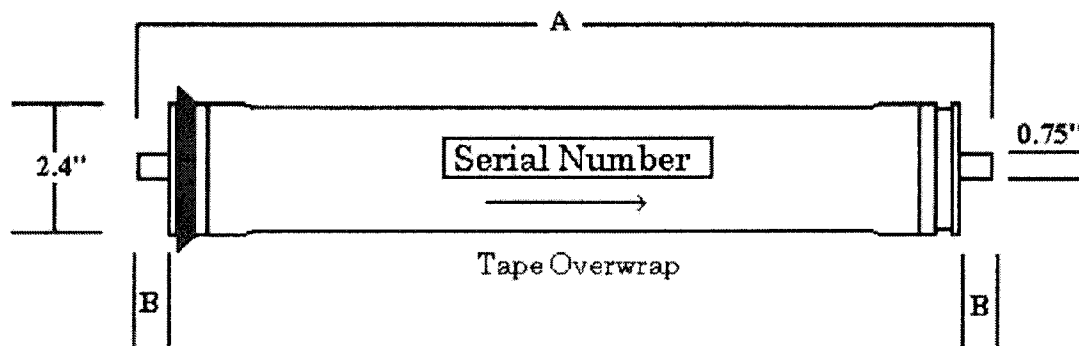
Reverse Osmosis Elements with Thin Film Composite Polyamide
Membrane Designed to fit a 2.45-2.5 Inch ID Housing or Pressure Vessel

ALL MATERIALS ARE NSF AND/OR FDA APPROVED WITH THE EXCEPTION OF THE ADHESIVE ON THE OUTER WRAP AND THE FIBERGLASS OUTER WRAP.

Model no.	Dimensions	Dimensions	Flow (GPD)	Rejection (%)	
	A (Inches)	B (Inches)	Nominal	Min.	Nominal
MEM 2514-LP	14.0	1.2	225	98.0	99.4
MEM 2521-LP	21.0	1.2	450	98.0	99.4
MEM-2526-LP	26.0	1.2	500	98.0	99.4
MEM 2540-LP	40.0	1.2	700	98.0	99.4

1. Permeate flow and salt rejection based on the following test conditions: 1500 ppm NaCl, 150psi (1.05Mpa), 77 F (25 C), pH 7.5 and 15% recovery

2. Flow rates for individual elements may vary +/-15%



Operating Limits

Membrane Type
Maximum Operating Pressure
Maximum Feed Flow Rate
pH Range, Continuous
pH Range, Cleaning Cycle (30 min)
Maximum Operating Temperature
Maximum Feed Turbidity
Maximum Feed Silt Density Index
Free chlorine Tolerance

Thin-Film Composite
300psi (2.1 Mpa)
6gpm (1.4 m³/h)
2 to 11
1 to 12
113 F (45 C)
1 NTU
SDI 5
<0.1 ppm

April 2, 2009

CERTIFICATE OF CONFORMANCE

CUSTOMER: Advanced Water Systems
PO# 03242015RY (PPWC)
Inv.# 25313
Ship date: April 2, 2015

The undersigned hereby certifies that the materials shipped herewith under above purchase order are in conformance with all contractually applicable government specifications and/or purchase order requirements.

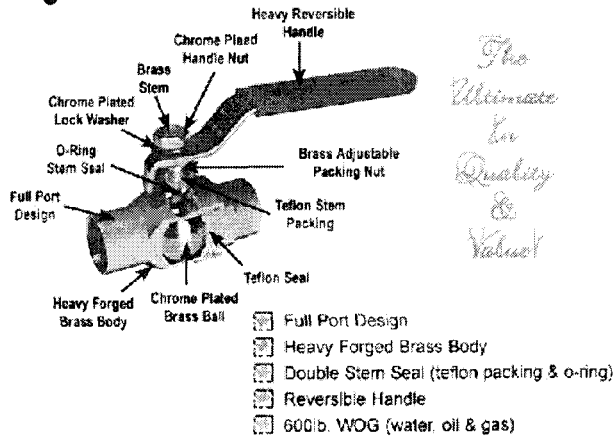
Hydrocomponents & Technologies, Inc certifies:

- PV-2521.3 are manufactured utilizing austenitic 304 SS Pipe, NSF61 PVC End plugs and NSF/FDA approved EPDM O-rings
- MEM-2521LP All the components utilized in the manufacture of this membrane are NSF or FDA Approved or Both with exception of the Fiberglass outer wrap and the adhesive on the outer wrap tape.
- All the components in the membrane and membrane housing that enter into contact with the RO permeate are NSF or FDA Approved or Both.

Robert Williamson
Q.A . Manager

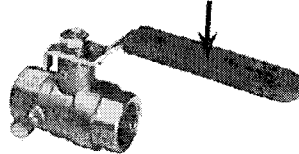
March 30, 2015
Date



WBPRO Full Port Ball Valves**WBPRO****WB Pro Full Port Ball Valves Threaded Ends and Drains**

- Full port
- 600 lb. WOG
- 150 PSI saturated steam
- Forged brass body
- 1/4 turn Reversible handle
- Chrome plated brass ball
- Double stem seal (teflon packing and, o-ring)
- Brass drain cap

Available in Custom Printing,
See Pg. F-11 for Ordering Info.



#56131 - Replacement Drain Cap

Cat. #	Description	Mn	Ea \$	Qty	Qty \$	Ex Qty	Cs Qty
56111	1/2" FIP Full Port Drain	1	-	10	-	10	100
56112	3/4" FIP Full Port Drain	1	-	10	-	10	80
56113	1" FIP Full Port Drain	1	-	8	-	8	48

Sweat Ends and Drain

- Full port
- 600 lb. WOG
- 150 PSI saturated steam
- Forged brass body
- 1/4 turn Reversible handle
- Chrome plated brass ball
- Double stem seal (teflon packing and, o-ring)
- Brass drain cap

Available in Custom Printing,
See Pgs. F-11 & F-12 for
Ordering Info.



#56131 - Replacement Drain Cap

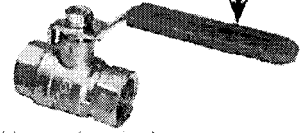
Cat. #	Description	Mn	Ea \$	Qty	Qty \$	Ex Qty	Cs Qty
56114	1/2" C Sweat Full Port Drain	1	-	10	-	10	100
56114NL	LoLead 1/2" C Full Port Drain	1	-	10	-	10	100
56115	3/4" C Sweat Full Port Drain	1	-	10	-	10	80
56115NL	LoLead 3/4" C Full Port Drain	1	-	10	-	10	80
56116	1" C Sweat Full Port Drain	1	-	8	-	8	48

* Catalogs ending in "NL" are AB1952 compliant

WBPRO**WB Pro Full Port Ball Valves Threaded Ends**

Available in Custom Printing,
See Pgs. F-11 & F-12 for
Ordering Info.

- Full port
- 600 lb. WOG
- 150 PSI saturated steam
- Forged brass body
- 1/4 turn Reversible handle
- Chrome plated brass ball
- Double stem seal (teflon packing and, o-ring)



Cat. #	Description	Mn	Ea \$	Qty	Qty \$	Ex Qty	Cs Qty
56127	1/4" FIP Full Port	1	-	10	-	10	100
56128	3/8" FIP Full Port	1	-	10	-	10	120
56105	1/2" FIP Full Port	1	-	10	-	10	100
56105NL	LoLead 1/2" FIP Full Port	1	-	10	-	10	100
56106	3/4" FIP Full Port	1	-	10	-	10	80
56106NL	LoLead 3/4" FIP Full Port	1	-	10	-	10	80
56107	1" FIP Full Port	1	-	8	-	8	48
56107NL	LoLead 1" FIP Full Port	1	-	8	-	8	48
56117	1-1/4" FIP Full Port	1	-	2	-	2	36
56117NL	LoLead 1-1/4" FIP Full Port	1	-	2	-	2	36
56118	1-1/2" FIP Full Port	1	-	2	-	2	34
56118NL	LoLead 1-1/2" FIP Full Port	1	-	2	-	2	34
56119	2" FIP Full Port	1	-	2	-	2	12
56119NL	LoLead 2" FIP Full Port	1	-	2	-	2	12
56125	2-1/2" FIP Full Port	1	-	2	-	2	8
56120	3" FIP Full Port	1	-	2	-	2	6

Sweat Ends

Available in Custom Printing,
See Pgs. F-11 & F-12 for
Ordering Info.

- Full port
- 600 lb. WOG
- 150 PSI saturated steam
- Forged brass body
- 1/4 turn Reversible handle
- Chrome plated brass ball
- Double stem seal (teflon packing and, o-ring)



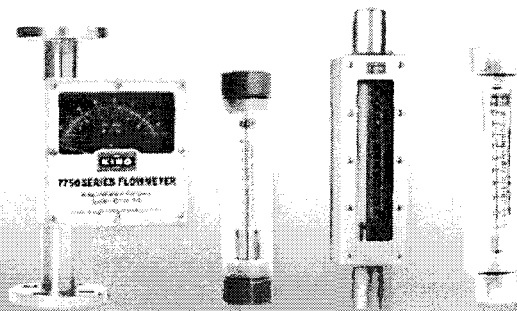
Cat. #	Description	Mn	Ea \$	Qty	Qty \$	Ex Qty	Cs Qty
56108	1/2" C Sweat Full Port	1	-	10	-	10	100
56108NL	LoLead 1/2" C Sweat Full Port	1	-	10	-	10	100
56109	3/4" C Sweat Full Port	1	-	10	-	10	80
56109NL	LoLead 3/4" C Sweat Full	1	-	10	-	10	80
56110	1" C Sweat Full Port	1	-	8	-	8	48
56110NL	LoLead 1" C Sweat Full Port	1	-	8	-	8	48
56121	1-1/4" C Full Port	1	-	2	-	2	36
56121NL	LoLead 1-1/4" C Full Port	1	-	2	-	2	36
56122	1-1/2" C Full Port	1	-	2	-	2	34
56122NL	LoLead 1-1/2" C Full Port	1	-	2	-	2	34
56123	2" C Full Port	1	-	2	-	2	12
56123NL	LoLead 2" C Full Port	1	-	2	-	2	12
56126	2-1/2" C Full Port	1	-	2	-	2	8
56124	3" C Full Port	1	-	2	-	2	6



32 YEARS OF QUALITY ENGINEERING & MANUFACTURING

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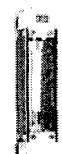
King Offers More Styles, Sizes, Features And Options



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Stainless
Steel
Meters



Borosilicate
Glass
Meters



Polysulfone
Acrylic & PVC
Meters

NEW 7440 Series

Customers have asked for a rugged, low flow, glass tube flowmeter with vertical connections. The 7440 Series was designed with these qualities in mind for cost-effective purging and dosing applications. Based on a proven design, the 7440 Series offers simple, adaptable installation and low maintenance costs.

[Read more](#)



King Rotameters Provide Flow Measurement Assurance

The difference between King Instrument Company and the competition is night and day. While other flow measurement manufacturers are focused on new technology, spending their time and money searching for more esoteric, unique, and therefore more expensive fluid and gas metering solutions, King's business concept is straightforward and simple.

King's primary focus is on using proven technology and longstanding methods to build the most accurate, versatile, and economical rotameters possible.

[Read More](#)

ISO 9001:2008 Certified

King Instrument Company has been certified by NSF - ISR to be in conformance to the internationally accepted ISO 9001:2008 Quality Management System standard.

Achievement and maintenance of this certification speaks of our on-going commitment to Customers to the delivery of quality products - on-time and hassle-free.

We expect our focus on continuous improvement of products, services, and our relationships to translate to long-lasting benefits for our Customers, Suppliers, and Employees. [View our Certificate](#)



Registered
to ISO 9001



How to Select the Correct Rotameter

Has this ever happened to you. Your flowmeter delivery finally arrives and the expensive instruments have absolutely nothing to do with solving your particular flow measurement challenges? Or that other company's rotameters don't measure up to the promised quality? And your job is on hold until you find the correct way of sizing variable area flowmeters suitable for liquid or gas applications?

Well, if you do need accurate, repeatable, low-cost rotameters—delivered on time to keep you operating under budget—we are here to help. King Instrument Company has made selecting the correct rotameter for your application a cinch. Really.

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CONFLICT FREE MINERAL SOURCES

We Believe in Responsible Engineering And Manufacturing

We support engineering and manufacturing practices based on socially - responsible supply chains, locally and globally. Our tungsten and tantalum components are manufactured from Conflict-Free mineral sources. Contact Supplier Quality Management roland@kicflow.com

The Company Mission

* To produce the finest group of rotameters ever sold*

We are committed to:

Clearly understanding and fulfilling our Customers' needs and expectations of timely delivery, product performance and value.
Fostering productive, long-term relationships with Suppliers by aligning their goals with the needs of our Customers.
Methodically improving our production systems to create true quality and productivity enhancements that directly benefit our Customers.
A culture that values continuous improvement in our products, services, and personal relationships.



ATTACHMENT D

AGREEMENT
FOR
DEVELOPER INSTALLED WATER TREATMENT FACILITIES

This Agreement is between Picacho Peak Water Company, an Arizona non-profit corporation ("Company"), with its address at PO Box 1100, Red Rock, AZ, 85145, and Bowlin Travel Centers Inc., a Nevada corporation ("Developer"), with its address at 150 Louisiana NE, Albuquerque, New Mexico 87108

RECITALS

- A. Company is a public service corporation within the meaning of Article 15, Section 2, of the Arizona Constitution, and is authorized to provide potable water service within portions of Pinal County, Arizona, in accordance with a Certificate of Convenience and Necessity ("CC&N") granted by the Arizona Corporation Commission ("Commission").
- B. Company is obligated to provide safe and affordable water service to the public.
- C. Company's water operations are governed by numerous federal and state statutes and regulations, and are subject to regulation by numerous federal and state agencies.
- D. Company's groundwater source contains nitrate levels exceeding 10 parts per billion, which exceeds applicable drinking water standards. Company is under order by the Arizona Department of Environmental Quality to treat its source water so it no longer exceeds applicable drinking water standards.
- E. Developer operates a restaurant and gift shop ("Development") and understands that it is in Developer's best interest to assist Company in providing water that meets the applicable drinking water standards for use by the current and future Development customers.
- F. Company is willing to continue to meet water demands of the Development provided Developer agrees to, at Developer's cost, design, permit, construct, and install centralized water treatment equipment and related facilities, including wastewater disposal facilities (collectively, the "Facilities") to serve the Development's potable water demand in an operationally efficient manner. The Facilities are described in Attachment 1, and incorporated herein.
- G. After designing, permitting, constructing, and installing the Facilities, Developer wants to transfer the Facilities to Company.
- H. So long as the Facilities are properly designed, permitted, constructed, installed, and approved by the Company and regulating authorities, Company believes accepting the Facilities and serving the Development promotes Company's and the public's interests, health, and welfare.

AGREEMENT

Understanding that the Recitals are incorporated into the terms of this Agreement, the Parties agree as follows:

1.0 Developer's General Obligations

1.1. Developer will design, permit, purchase, transport, construct, test, install, connect, bond, secure approvals, and insure the Facilities at no cost to Company.

1.1.1. The estimated cost of construction of the subject plant as more fully detailed in Attachment 2, attached hereto and incorporated herein by reference, is estimated to be \$8,000 to \$12,000.

1.1.2. The Parties acknowledge that the cost to complete the project may differ from this estimate, in which case, Developer shall not be excused from performance hereunder.

1.2. Developer must follow good utility practices and the applicable governmental rules, regulations, and policies when designing, permitting, constructing, installing, and connecting the Facilities.

1.3. Within 30 days of the date of Operational Acceptance (as defined below), Developer will execute all documents reasonably necessary to transfer the Facilities to the Company and agree to provide the Company reasonable access to operate and maintain the Facilities at no cost.

2.0 Company's General Obligations

2.1. If Developer has met its obligations, then Company will:

2.1.1. Promptly review, inspect, and, if appropriate, approve the Facilities;

2.1.2. Approve and accept the Facilities and agreements reasonably required to operate and maintain the Facilities; and

2.1.3. Assist Developer to secure necessary regulatory approvals including the Arizona Department of Environmental Quality ("ADEQ").

2.2. After the date of Operational Acceptance, Company will operate and the Facilities subject to the warranty provisions described below.

2.3. At its sole option, Company may work with the Developer to finance the acquisition and installation of the Facilities.

3.0 Construction Timing

- 3.1. Developer estimates construction will start on February 1, 2014, and will be completed by March 31, 2015.
- 3.2. If Developer does not begin construction within nine months from the date of this Agreement, Developer will be in material breach of this Agreement.
- 3.3. If the Facilities are not constructed by December 31, 2015, Developer will be in material breach of this Agreement.
- 3.4. Developer shall act diligently to obtain the necessary permits and governmental approvals.

4.0 Plans, Specifications and Testing

- 4.1. Developer will prepare Facilities plans and specifications by an appropriately licensed and qualified engineer registered in Arizona ("Plans and Specifications").
- 4.2. Developer will submit the Plans and Specifications to Company for approval. Company will promptly review the Plans and Specifications and issue, in writing, its review comments or approval, as appropriate.
- 4.3. If the Plans and Specifications are not approved by Company, then Developer will modify the Plans and Specifications to address Company's comments and resubmit the Plans and Specifications for Company's review and approval.
- 4.4. If Developer begins Facilities construction before Company approves the Plans and Specifications, this construction will be at Developer's sole risk and subject to repair, alteration or reconstruction at Developer's expense as directed by Company.
- 4.5. Upon substantial completion of the Facilities, Developer will take water samples and promptly disclose the water quality data and documents to Company. If the water exceeds 70% of the maximum permissible level for a contaminant in drinking water as promulgated by the United States Environmental Protection Agency or ADEQ (the "Standard"), the Facilities shall not be accepted and Developer shall make all repairs and reconstruction necessary to meet the Standard.

5.0 Construction Risk, Insurance, and Bonding

- 5.1 Developer shall carry on all work on the Facilities or otherwise required hereunder at its own risk until the same is fully completed and accepted by the Company and will, in case of accident, destruction or injury to the work of material before such final completion and acceptance, replace or repair forthwith any materials so injured, damaged or destroyed, in accordance with the original approved plans and specifications and to the satisfaction of the Company and at Developer's own expense.

Developer hereby assumes the entire responsibility and liability for injury or death of any person, or loss for damage to any property contributed to or caused by the active or passive negligence of Developer, its agents, servants, employees, or subcontractors incurred during the course of construction of the Facilities. Accordingly, DEVELOPER WILL IDEMNIFY AND HOLD HARMLESS the Company, its officers, directors, engineers, agents, and employees from and against such claims or expenses, including penalties and assessments, to which they or any of them may be subjected by reason of such injury, death, loss, claim, penalty, assessment or damage, and in case any suit or other proceeding shall be brought on account thereof, Developer will assume the defense at Developer's own expense and will pay all judgments rendered therein. Developer's indemnity obligation hereunder shall terminate upon expiration of the warranty period except with respect to any claim for indemnification then pending by the Company against Developer.

5.2 Developer agrees to produce and maintain all insurances described below. Certificates of insurance shall be provided to the Company before the commencement of actual construction.

5.2.1 Workman's compensation in the benefit amounts, and occupational disease disability insurance, as required by the laws and regulations of the state.

5.2.2 Comprehensive general liability insurance, with minimum combined single limits of \$1,000,000.00, and including operations and protective liability coverage's. When the work to be performed requires blasting, Developer's insurance shall specifically cover that risk.

5.2.3 Comprehensive automobile liability insurance with minimum combined single limits of \$1,000,000.00, and covering all owned and non-owned automobiles or trucks used by or on behalf of Developer, in connection with the work.

6.0 Operational Acceptance.

6.1. Before Company will determine whether to accept the Facilities, Developer must provide Company the following to the reasonable satisfaction of Company:

6.1.1. Lien waivers and releases from contractors, subcontractors, and vendors for all Facilities' materials, equipment, supplies, and construction;

6.1.2. Receipts, showing amounts paid by Developer to all contractors, subcontractors, and vendors for all Facilities' materials, equipment, supplies, labor, and other costs for design and construction of the Facilities ("Construction Costs");

6.1.3. "As-built" drawings certified as to correctness by an engineer registered in the State of Arizona;

6.1.4. Documents confirming the Facilities transfer to Company; and

6.1.5. All required permits, approvals, or authorizations from regulatory agencies.

6.2. If Company has determined that the Facilities have been constructed according to the approved Plans and Specifications and will satisfactorily treat the water to the levels described herein, in an operationally cost efficient manner, then Company will accept the Facilities, subject to Developer's correction of any outstanding punch list items and continual adequate water treatment. Such acceptance is referred to herein as the Operational Acceptance.

7.2.1 For the period of 12 months following final acceptance of the Facilities by Company, the Developer will be responsible for causing any improvements or repairs to the Facilities.

7.0 Refund

7.1. Subject to the qualifications below, for the period of 10 years after the date of Operational Acceptance, Company shall pay Developer annually 10% of the payments received from bona fide customers supplied with treated water from the Facilities (the "refund payments").

7.2. If Developer is entitled to any refund payments, then there will be 10 consecutive refund years. Refund year 1 will begin on July 1 after the date of Operational Acceptance and will end on the next June 30. Refund years 2 through 10 will each date from July 1 to June 30. Company will make any refund payments owed to Developer for the previous refund year by August 31. The refund may, at the Company's option, be in the form of a credit to the Developer's active account on the Company's records.

7.3. The refund payments shall not exceed the total amounts advanced by Developer for the Facilities. Accordingly, Developer must furnish invoices to Company to receive the refund. Developer must furnish receipts showing amounts paid by Developer to all contractors, subcontractors, and vendors for all Facilities' materials, equipment, supplies, labor, and other costs incurred for the construction of the Facilities.

7.4. Any balance advanced for the Facilities remaining at the end of the 10-year refund period is nonrefundable. No interest will be owed on any amount advanced.

8.0 Assignment

8.1. Neither Company nor Developer may assign its rights or obligations under this Agreement without the other party's prior written consent. This consent may not be unreasonably withheld by either party.

9.0 Binding Agreement

9.1. This Agreement binds, and inures to the benefit of, the parties, and their respective legal representatives, administrators, executors, agents, successors, and assigns.

10.0 Applicable Law

10.1. Arizona law governs this Agreement and its performance is subject to regulation by the State of Arizona as well as federal, state, and local regulatory agencies with jurisdiction.

10.2. By signing below, Developer acknowledges that the Company provided Developer a copy of the Arizona Corporation Commission rules governing extension agreements.

11.0 Waivers

11.1. Either party may waive any provision in this Agreement intended for its benefit.

11.2. Any waiver must be in writing.

11.3. No waiver of a provision will operate to waive any other provision.

11.4. If either party fails to require the other to perform any term of this Agreement, that failure does not prevent the party from later enforcing that term.

12.0 Communications

12.1. Communications under this Agreement should be should be addressed as follows:

Company:

Picacho Peak Water Company
Attention Bill McCabe
150 Louisiana NE
Albuquerque, NM 87108

Developer:

Bowlin Travel Centers Inc
Attention Kit Johnson
3415 Harrelson Street
Las Cruces, NM 88005

13.0 Address Changes

13.1. A party changing their address will notify the other party in writing.

14.0 Further Documentation

14.1. Each party agrees in good faith to execute any additional documents as may be necessary or appropriate to fully carry out the intent and purpose of this Agreement.

15.0 Counterparts

15.1. This Agreement may be executed in counterparts.

17.0 Additional Terms

17.1 Any provision of this Agreement or any portion thereof which now or hereafter is contrary to any law, order, regulation, ordinance or requirement of any governmental unit or subdivision, whether the same are now in force or are enacted or promulgated in the future, or is otherwise invalid, shall be deemed stricken from this Agreement, which shall not invalidate or impair the remainder of such provision or the remaining provisions of this Agreement.

17.3 The prevailing Party in any action to enforce the terms and provisions of this Agreement shall be entitled to recover its reasonable attorneys' fees and costs incurred in such action, in addition to any other remedies allowed under applicable law.

17.4 The Parties agree to execute, acknowledge and deliver such further documents as may be necessary or proper to carry out the purpose and intent of this Agreement.

17.5 Time is of the essence of this Agreement and each and every provision hereof.

17.6 If any provision or any portion of a provision of this Agreement is deemed to be invalid, illegal or unenforceable, such invalidity, illegality or unenforceability shall not affect the remaining portion of that provision or of any other provision of this Agreement, as each provision of this Agreement shall be deemed to be able from all other provisions hereof.

17.7 This Agreement contains the entire understanding among the parties. This Agreement may be amended only by an instrument in writing signed by all parties. All amendments to this Agreement must be in writing and signed by the Parties.

Signed by the parties as of January 16, 2015 :

[Signatures on the following pages]

Company
Picacho Peak Water Company

Developer
Bowlin Travel Centers Inc

By: Bill McCabe
Bill McCabe
Its: President

By: _____
Kit Johnson
Its: Director of Operations

STATE OF New Mexico
County of Bernalillo) ss.

The foregoing instrument was acknowledged before me on January 16, 2015
by Bill McCabe President of Picacho Peak Water Co.

Cynthia K. Biggers
Name

My Commission expires: April 9, 2017

STATE OF _____
County of _____) ss.

The foregoing instrument was acknowledged before me on _____
by _____ of _____

Name

My Commission expires: _____

Company
Picacho Peak Water Company

Developer
Bowlin Travel Centers Inc

By: _____
Bill McCabe
Its: President

By: *Kit Johnson*
Kit Johnson
Its: Director of Operations

STATE OF _____)
) ss.
County of _____)

The foregoing instrument was acknowledged before me on _____,

by _____ of _____.

Name

My Commission expires: _____

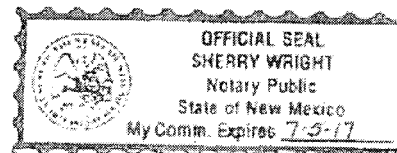
STATE OF New Mexico)
) ss.
County of Dona Ana)

The foregoing instrument was acknowledged before me on Feb 5, 2015

by _____ of _____.

Sherry Wright
Name

My Commission expires: 7-5-17



ATTACHMENT 1

ENGINEERING PLAN OF WATER UTILITY PLANT

ATTACHMENT 2

ESTIMATED COST OF FACILITIES

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Refundable</u>	<u>Non-Refundable</u>	<u>Total</u>
--------------------	-----------------	-------------	-------------------	-----------------------	--------------

Engineer, Company supervision, inspection and professional fees

TOTAL ADVANCE/CONTRIBUTION \$ 0.000.

The size and quantity of the required facilities and the cost of those facilities will be subsequently revise in accordance with the approved engineering plans. Thereafter, this Attachment and Agreement shall be revised to reflect actual cost.